Cell : 97911 94239, 95510 40418

GLOBAL CUTTING DIES

-----Manufactures of Leather Clicking Dies-----

GSTIN : 33BJLPG0640R1Z0

01-08-2023

To Whom So Ever It May Concern

This is to certify that ***Mr. MOHAMED IRSHATH N.M,*** *(Roll No: 110121114308) student of* ***Aalim Muhammed Salegh College of Engineering, Chennai – 600 055*** *has undergone his Internship training with us for two weeks as a part of his Third year B.E., (Mechanical Engineering) course from 5th July 2023 to 19th July 2023.*

For Global Cutting Dies

Proprietor

GLOBAL CUTTING DIES CHENNAI 600 062

No.22, 1st Street, Thamarai Nagar, Thirumullaivoyal, Chennai-600062.
Email : globalcuttingdies@gmail.com

Cell : 97911 94239, 95510 40418

GLOBAL CUTTING DIES

-----Manufactures of Leather Clicking Dies-----

GSTIN : 33BJLPG0640R1Z0

01-08-2023

To Whom So Ever It May Concern

This is to certify that ***Mr. Mohan Babu S,*** *(Roll No: 110121114313) student of* ***Aalim Muhammed Salegh College of Engineering, Chennai – 600 055*** *has undergone his Internship training with us for two weeks as a part of his Third year B.E., (Mechanical Engineering) course from 5th July 2023 to 19th July 2023.*

For Global Cutting Dies

GLOBAL CUTTING DIES CHENNAI 600 062

Proprietor

No.22, 1st Street, Thamaral Nagar, Thirumullaivoyal, Chennai-600062.
Email : globalcuttingdies@gmail.com

R.S. No. 77, Thirubuvanai Main Road,
Thirubuvanai,
Puducherry - 605 107.
CIN : L65993TN2004PLC052856

Tel : +91 413 2640201
+91 413 2640202
URL : www.rane.co.in

Rane (Madras) Limited

Rane
Expanding Horizons

Date: 23.08.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Raiyan A S (Reg No: 110121114020)** Third Year B.E (Mech.) student of Aalim Muhammed Salegh College of Engineering, Chennai, has successfully completed his Internship for a period of fifteen days from 25.07.2023 to 08.08.2023.

During the tenure with us, his character and conduct was found to be good.

We wish him all the best for his future endeavor.

For Rane (Madras) Limited,

Anantharaj G
Assistant Manager –HR

MARUTI SUZUKI ARENA

04.08.2023

To Whom So Ever It May Concern

This is to certify that Mr. ***Karthikeyan B****, (Roll No: 110121114008) Student of* ***Aalim Muhammed Salegh College of Engineering, Chennai – 600 055*** *has undergone his Internship training with us for two weeks as a part of his Third year B.E., (Mechanical Engg) course from 5th July 2023 to 19th July 2023.*

For Vishnu Cars Private Limited.

Asst Manager - HR

VISHNU CARS PVT. LTD. CHENNAI

No. : 38878

एन एस आई सी
N S I C

राष्ट्रीय लघु उद्योग निगम लिमिटेड
THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED
(A Govt. of India Enterprise)

NSIC - TECHNICAL SERVICES CENTRE

Sector B-24, Guindy Industrial Estate, Ekkaduthangal, Chennai - 600 032.

CERTIFICATE

This is to certify that Mr. **MAHMOOD SULAIMAN A.** S/o. Shri. **AZEEZ MS.** student of III year B.E. (Mechanical), Aalim Muhammed Salegh College of Engineering, has undergone **"Virtual Internship Training on DEVELOPMENT OF PLC CONTROLS AND INDUSTRIAL AUTOMATION"** conducted by us for a period of two weeks from 12.07.2023 to 26.07.2023.

HEAD OF TRAINING

HEAD OF CENTRE

PLASMID

Internship Offer Letter

20-06-23

TO WHOM IT MAY CONCERN

This is to confirm that **Mr.Abdul Wahid M** will be undergoing an internship with Plasmid Innovation Ltd that shall commence from 20th June 2023.

He will be undertaking his internship in the domain of Data science based applications. It will have a total duration of one month and is slated to be completed by the 20th July 2023.

We are confident that He would play a significant role in materializing the organization's vision.

For any queries, kindly contact the undersigned. Best regards,

K Praveen Kumar
Senior Manager, HR
Plasmid

8618669877
support@plasmid.co.in
1st floor, Featherlight The Address, Marathahalli, Bangalore, KA, 560103

No.: 388 79

राष्ट्रीय लघु उद्योग निगम लिमिटेड

एन एस आई सी
N S I C

THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(A Govt. of India Enterprise)

NSIC - TECHNICAL SERVICES CENTRE

Sector B-24, Guindy Industrial Estate, Ekkaduthangal, Chennai - 600 032.

CERTIFICATE

This is to certify that Mr. **MOHAMED AZARUDEEN K.** S/o. Shri. **KALANDHAR MYDEEN,** student of III year B.E. (Mechanical), Aalim Muhammed Salegh College of Engineering, has undergone **"Virtual Internship Training on DEVELOPMENT OF PLC CONTROLS AND INDUSTRIAL AUTOMATION"** conducted by us for a period of two weeks from 12.07.2023 to 26.07.2023.

HEAD OF TRAINING

HEAD OF CENTRE

Academor

CERTIFICATE OF COURSE COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO:

M.Mohamed Abdul Kareem

For completing his/her internship under the domain **AutoCAD** from Academor
of duration **2 Months** from **01/08/2023** to **30/09/2023**.
During this internship program, The student was deemed to be an energetic and a keen learner.

HR MANAGER

ACADEMIC HEAD

Unique ID: ACM23-4272
Issue Date: 24/10/2023.

Academor

CERTIFICATE OF COURSE COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO:

S.SAEED WASEEM

For completing his/her internship under the domain **AutoCAD** from Academor
of duration **2 Months** from **01/08/2023** to **30/09/2023**.
During this internship program, The student was deemed to be an energetic and a keen learner.

HR MANAGER

ACADEMIC HEAD

Unique ID: ACM23-4271
Issue Date: 24/10/2023.

Academor

CERTIFICATE OF COURSE COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO:

M.SYED ABDUL RAHUMAN

For completing his/her internship under the domain **AutoCAD** from Academor of duration **2 Months** from **01/08/2023** to **30/09/2023**.
During this internship program, The student was deemed to be an energetic and a keen learner.

HR MANAGER

ACADEMIC HEAD

Unique ID: ACM23-4274
Issue Date: 24/10/2023.

Cell : 97911 94239, 95510 40418

GLOBAL CUTTING DIES

-----Manufactures of Leather Clicking Dies-----

GSTIN : 33BJLPG0640R1Z0

01-08-2023

To Whom So Ever It May Concern

This is to certify that ***Mr. ABDUL RAHIM S,*** *(Roll No: 110121114301) student of* ***Aalim Muhammed Salegh College of Engineering, Chennai – 600 055*** *has undergone his Internship training with us for two weeks as a part of his Third year B.E., (Mechanical Engineering) course from 5th July 2023 to 19th July 2023.*

For Global Cutting Dies

GLOBAL CUTTING DIES CHENNAI 600 062

Proprietor

No.22, 1st Street, Thamarai Nagar, Thirumullaivoyal, Chennai-600062.
Email : globalcuttingdies@gmail.com

R-17/23

CHENNAI ECO MOTORS

(Authorized main Dealers for HERO Electric Bikes in Chennai)

New No.4, Aziz Malk 1st Street, Thousand Lights
Chennai, Tamilnadu – 600 006.
Cell: 8189811199, 044 28290091

E-Mail – Chennaieco@gmail.com
GST;33AAFPV2814E1ZY

HEROeLECTRIC
plug in. plug out. ride!

TIN NO.33550542310
CST NO: 1061575

Emp-CENHRD/276DRLINT
2023/

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. **FURQAAN.N** of Aalim Muhammed Salegh College of Engineering, has successful completed 15 Days of an internship program from 17.07.2023 to 01.08.2023 in the Assembly & Controller department of our organization

He was highly motivated and hardworking: He worked sincerely at his tanks and did a very good job

We wish him great success in his future endeavors

H R Manager
Punitha.S

General Manager
Salmankhan.S

CHENNAI ECO MOTORS
CHENNAI 600 006

No. :38880

एन एस आई सी
N S I C

राष्ट्रीय लघु उद्योग निगम लिमिटेड
THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED
(A Govt. of India Enterprise)

NSIC - TECHNICAL SERVICES CENTRE

Sector B-24, Guindy Industrial Estate, Ekkaduthangal, Chennai - 600 032.

CERTIFICATE

This is to certify that Mr. **R. SEENI RIYAS KHAN** S/o. Shri. **M. RAJA MOHAMMED,** student of III year B.E. (Mechanical), Aalim Muhammed Salegh College of Engineering, has undergone **"Virtual Internship Training on DEVELOPMENT OF PLC CONTROLS AND INDUSTRIAL AUTOMATION"** conducted by us for a period of two weeks from 12.07.2023 to 26.07.2023.

HEAD OF TRAINING

HEAD OF CENTRE

Academor

CERTIFICATE OF COURSE COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO:

FOWSAL HASSAN. A

For completing his/her internship under the domain **AutoCAD** from Academor of duration **2 Months** from **01/08/2023** to **30/09/2023**.

During this internship program, The student was deemed to be an energetic and a keen learner.

HR MANAGER

ACADEMIC HEAD

Unique ID: ACM23-4267
Issue Date: 24/10/2023.

No. : 38877

राष्ट्रीय लघु उद्योग निगम लिमिटेड

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N S I C

THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(A Govt. of India Enterprise)

NSIC - TECHNICAL SERVICES CENTRE

Sector B-24, Guindy Industrial Estate, Ekkaduthangal, Chennai - 600 032.

CERTIFICATE

This is to certify that Mr. **ABDUL AJEEZ M.** S/o. Shri. **MOHAMED SAKKERIYA N.N.** student of III year B.E. (Mechanical), Aalim Muhammed Salegh College of Engineering, has undergone **"Virtual Internship Training on DEVELOPMENT OF PLC CONTROLS AND INDUSTRIAL AUTOMATION"** conducted by us for a period of two weeks from 12.07.2023 to 26.07.2023.

HEAD OF TRAINING

HEAD OF CENTRE

Academor

CERTIFICATE OF COURSE COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO:

AHAMED KABEER . H

For completing his/her internship under the domain **AutoCAD** from Academor of duration **2 Months** from **01/08/2023** to **30/09/2023**.

During this internship program, The student was deemed to be an energetic and a keen learner.

HR MANAGER

ACADEMIC HEAD

Unique ID: ACM23-4259
Issue Date: 24/10/2023.

Academor

CERTIFICATE OF COURSE COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO:

Mohamed Fayasudeen M

For completing his/her internship under the domain **AutoCAD** from Academor of duration **2 Months** from **01/08/2023** to **30/09/2023**.

During this internship program, The student was deemed to be an energetic and a keen learner.

HR MANAGER

ACADEMIC HEAD

Unique ID: ACM23-4275
Issue Date: 24/10/2023.

Academor

CERTIFICATE OF COURSE COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO:

Mohamed Razeen S

For completing his/her internship under the domain **AutoCAD** from Academor of duration **2 Months** from **01/08/2023** to **30/09/2023**.

During this internship program, The student was deemed to be an energetic and a keen learner.

HR MANAGER

ACADEMIC HEAD

Unique ID: ACM23-4277
Issue Date: 24/10/2023.

Academor

CERTIFICATE

INTERNSHIP COMPLETION

PROUDLY PRESENTED TO

NAWASIR HUSAIN.S

For completing his/her internship and project with Academor under the domain **AutoCAD** of duration 2 months from **01/08/2023** to **30/09/2023**. During this internship program, The student was deemed to be an energetic and a keen learner. We wish him/her the best success in their future endeavors.

Unique ID: ACM23-3190
Issue Date: 26/11/2023.

HR MANAGER

VICE PRESIDENT

Academor

CERTIFICATE

INTERNSHIP COMPLETION

PROUDLY PRESENTED TO

Mohaideen Abdul Kadar.S

For completing his/her internship and project with Academor under the domain **AutoCAD** of duration 2 months from **01/08/2023** to **30/09/2023**. During this internship program, The student was deemed to be an energetic and a keen learner. We wish him/her the best success in their future endeavors.

Unique ID: ACM23-3191
Issue Date: 26/11/2023.

HR MANAGER

VICE PRESIDENT

MARUTI SUZUKI ARENA

04.08.2023

To Whom So Ever It May Concern

This is to certify that ***Mr. Dilip Kumar S C,*** *(Roll No: 110121114304) Student of* ***Aalim Muhammed Salegh College of Engineering, Chennai – 600 055*** *has undergone his Internship training with us for two weeks as a part of his Third year B.E., (Mechanical Engg) course from 5th July 2023 to 19th July 2023.*

For Vishnu Cars Private Limited.

Asst Manager - HR

Vishnu Cars Private Limited, # 203 to 206, Mount Poonamallee Road, Kattupakkam, Chennai - 600 056. Contact No. : 044-2679 2961-67
Email : smsalesktp@vishnucars.in | CIN No. U50101TN2004PTC054698 | GST : 33AABCV9886D1Z1

MARUTI SUZUKI ARENA

04.08.2023

To Whom So Ever It May Concern

This is to certify that **Mr. Devarajan S.** (Roll No: 110121114303) Student of **Aalim Muhammed Salegh College of Engineering, Chennai – 600 055** has undergone his Internship training with us for two weeks as a part of his Third year B.E., (Mechanical Engg) course from 5th July 2023 to 19th July 2023.

For Vishnu Cars Private Limited.

Asst Manager - HR

Vishnu Cars Private Limited, # 203 to 206, Mount Poonamallee Road, Kattupakkam, Chennai - 600 056. Contact No. 044-26
Email : smsalesktp@vishnucars.in | CIN No. U50101TN2004PTC054698 | GST : 33AABCV9886D1Z1

MARUTI SUZUKI ARENA

04.08.2023

To Whom So Ever It May Concern

This is to certify that ***Mr. Mohammed Ibrahim****, (Roll No: 110121114310) Student of* ***Aalim Muhammed Salegh College of Engineering, Chennai – 600 055*** *has undergone his Internship training with us for two weeks as a part of his Third year B.E., (Mechanical Engg) course from 5th July 2023 to 19th July 2023.*

For Vishnu Cars Private Limited.

Asst Manager - HR

Vishnu Cars Private Limited, # 203 to 206, Mount Poonamallee Road, Kattupakkam, Chennai - 600 056. Contact No. : 044-2672 2363 / 7
Email : simsalesktp@vishnucars.in | CIN No. U50101TN2004PTC054698 / GST : 33AABCV3686D1Z1

MARUTI SUZUKI ARENA

04.08.2023

To Whom So Ever It May Concern

This is to certify that ***Mr. Kumaraguru K,*** *(Roll No: 110121114307) Student of* ***Aalim Muhammed Salegh College of Engineering, Chennai – 600 055*** *has undergone his Internship training with us for two weeks as a part of his Third year B.E., (Mechanical Engg) course from 5th July 2023 to 19th July 2023.*

For Vishnu Cars Private Limited.

Asst Manager - HR

Vishnu Cars Private Limited, # 203 to 206, Mount Poonamallee Road, Kattupakkam, Chennai - 600 056. Contact No. : 044-2679 2981-87
Email : amsalesktp@vishnucars.in | CIN No. U50101TN2004PTC054698 / GST : 33AABCV9886D1Z1

TCSPL

CIN : U74140TN2001PTC047945

THANGAM CORPORATE SERVICES PRIVATE LIMITED

No. 12, Avenue Road, Rathinam Complex, 1st Floor, Nungabakkam, Chennai - 600 0:

☎ : 4213 7797, 2821 4234 www.thangamcorporate.co.in

Date: 31-July-2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. ASIF H** has successfully completed 4 weeks of an internship program from **02-July-2023** to **30-July-2023** in the Stores department of our organization.

He was highly motivated and hardworking. He worked sincerely at his tasks and did a very good job.

We wish him great success in his future endeavors.

For Thangam Corporate Services P Ltd.,

Ramakrishna S

Director

PLASMID

Internship Offer Letter

20-06-23

TO WHOM IT MAY CONCERN

This is to confirm that **Mr.Mohammed Shakeel J** will be undergoing an internship with Plasmid Innovation Ltd that shall commence from 30th November 2023.

He will be undertaking his internship in the domain of Business Analytics based applications. It will have a total duration of one month and is slated to be completed by the 20th July 2023.

We are confident that He would play a significant role in materializing the organization's vision.

For any queries, kindly contact the undersigned. Best regards,

K Praveen Kumar
Senior Manager, HR
Plasmid

8618669877
support@plasmid.co.in
1st floor, Featherlight The Address, Marathahalli, Bangalore, KA, 560103

PLASMID

Internship Offer Letter

20-06-23

TO WHOM IT MAY CONCERN

This is to confirm that **Mr.M Ragu** will be undergoing an internship with Plasmid Innovation Ltd that shall commence from 30th November 2023.
He will be undertaking his internship in the domain of Autocad based applications. It will have a total duration of one month and is slated to be completed by the 20th July 2023.

We are confident that He would play a significant role in materializing the organization's vision.

For any queries, kindly contact the undersigned. Best regards,

K Praveen Kumar
Senior Manager, HR
Plasmid

8618669877
support@plasmid.co.in
1st floor, Featherlight The Address, Marathahalli, Bangalore, KA, 560103

DHARAN INDUSTRIES

V. VENKATESAN
9710235565

39, (Old #31), Thiruvalluvar Street, T.M.P. Nagar, Padi, Chennai - 600050.
Ph: 9710235565 | email: dharanindustries@gmail.com | GSTN: 33AFMPV2526B1ZM

18.08.2023

His certificate is awarded to MR. Mohamed ishaq.M (110121114309) from Azlim muhammed salegh Engineering College completion of the internship program at firm DHARAN INDUSTRIES for this role jigs& fixture under guidance of v venkatesan on 17/7/2023 to 18/8/2023 at our organization.

During the period, we found him very enthusiastic and studious. We wish him a bright future.

DHARAN INDUSTRIES CHENNAI 600 050

For Dharan Industries

V. venkatesan

CEO

DHARAN INDUSTRIES

39, (Old #31), Thiruvalluvar Street, T.M.P. Nagar, Padi, Chennai - 600050.
Ph: 9710235565 | email: dharanindustries@gmail.com | GSTN: 33AFMPV2526B1ZM

1.9.2023

This certificate is awarded to MR. Rahumathulla (110:21114316) from Achan muhammad sahegh Engineering College completion of the internship program at from DHARAN INDUSTRIES for this role jigs& fixture under guidance of V. venkatesan on 17/7/2023 to 18/8/2023 at our organization.

During the period, we found him very enthusiastic and studious. We wish him a bright future.

DHARAN INDUSTRIES CHENNAI 600 050

For Dharan Industries

V. venkatesan

CEO

R-17/23

CHENNAI ECO MOTORS

(Authorized main Dealers for HERO Electric Bikes in Chennai)

New No.4, Aziz Mulk 1st Street, Thousand Lights
Chennai, Tamilnadu – 600 006.
Cell: 8189811199, 044 28290091

E-Mail – Chennaieco@gmail.com
GST;33AAFPV2814E1ZY

HEROelectric
plug in. plug out. ride!

TIN NO.33550542310
CST NO: 1061575

Emp-CENHRD/276DRLINT
2023/

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. **KHALEEL** of Aalim Muhammed Salegh College of Engineering, has successful completed 15 Days of an internship program from 17.07.2023 to 01.08.2023 in the Assembly & Controller department of our organization

He was highly motivated and hardworking: He worked sincerely at his tanks and did a very good job
We wish him great success in his future endeavors

H R Manager
Punitha.S

General Manager
Salmankhan.S

CHENNAI ECO MOTORS
New # 4, Aziz Mulk 1st Street,
Thousand Lights, Chennai-600 006.
Ph: 044-2829 0091
TIN No: 33550542310
CST No: 1061515 dt: 18-1-13

CHENNAI ECO MOTORS CHENNAI 600 006

CHENNAI ECO MOTORS CHENNAI 600 006

R-17/23

CHENNAI ECO MOTORS

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New No.4, Aziz Mulk 1st Street, Thousand Lights
Chennai, Tamilnadu – 600 006.
Cell: 8189811199, 044 28290091

E-Mail – Chennaieco@gmail.com
GST;33AAFPV2814E1ZY

HEROelectric
plug in. plug out. ride!

TIN NO.33550542310
CST NO: 1061575

Emp-CENHRD/276DRLINT
2023/

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. **MOHAMMED SAJITH S** of Aalim Muhammed Salegh College of Engineering, has successful completed 15 Days of an internship program from 17.07.2023 to 01.08.2023 in the Assembly & Controller department of our organization

He was highly motivated and hardworking: He worked sincerely at his tanks and did a very good job
We wish him great success in his future endeavors

H R Manager
Punitha.S

General Manager
Salmankhan.S

CHENNAI ECO MOTORS
New # 4, Aziz Mulk 1st Street,
Thousand Lights, Chennai-600 006.
Ph: 044-2[illegible]
TIN No: 33[illegible]
CST No: 106151[illegible]

R-17/23

CHENNAI ECO MOTORS

(Authorized main Dealers for HERO Electric Bikes in Chennai)

New No.4, Aziz Mulk 1st Street, Thousand Lights
Chennai, Tamilnadu – 600 006.
Cell: 8189011199, 044 28290091

E-Mail – Chennaieco@gmail.com
GST;33AAFPV2814E1ZY

HEROelectric
plug in. plug out. ride!

TIN NO.33550542310
CST NO: 1061575

Emp-CENHRD/276DRLINT
2023/

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. **MOHAMMED MUJIP Y** of Aalim Muhammed Salegh College of Engineering, has successful completed 15 Days of an internship program from 17.07.2023 to 01.08.2023 in the Assembly & Controller department of our organization

He was highly motivated and hardworking: He worked sincerely at his tanks and did a very good job

We wish him great success in his future endeavors

CHENNAI ECO MOTORS
New # 4, Aziz Mulk 1st Street,
Thousand Lights, Chennai-600 006.
Ph: 044-2823 0091
TIN NO: 33550542310

H R Manager
Punitha.S

General Manager
Salmankhan.S

Thirubuvanai,
Puducherry - 605 107.
CIN : L65993TN2004PLC052856

+91 413 2640201
+91 413 2640202
URL : www.rane.co.in

Rane (Madras) Limited

Rane
Expanding Horizons

Date: 23.08.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Mohamed Thameesudeen A (Reg No: 110121114016)** Third Year B.E (Mech.) student of Aalim Muhammed Salegh College of Engineering, Chennai, has successfully completed his Internship for a period of fifteen days from 25.07.2023 to 08.08.2023.

During the tenure with us, his character and conduct was found to be good.

We wish him all the best for his future endeavor.

For Rane (Madras) Limited,

Anantharaj G
Assistant Manager –HR

Date: 28.07.2023

TO WHOMSOEVER IT MAY CONCERN

This is to Certify That **MR. A KANNADASAN** Student of Aalim Muhammed Salegh College of Engineering has successfully completed an internship in the field of Mechanical Design from 10 July 2023 to 28 July 2023.

During the period of his internship program with us, he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish his every success in his life and career.

Yours truly,

For TANCAM

R-17/23

CHENNAI ECO MOTORS

(Authorized main Dealers for HERO Electric Bikes in Chennai)

New No.4, Aziz Mulk 1st Street, Thousand Lights
Chennai, Tamilnadu – 600 006.
Cell: 8189811199, 044 2829009l

E-Mail – Chennaieco@gmail.com
GST;33AAFPV2814E1ZY

HEROelectric
plug in. plug out. ride!

TIN NO.33550542310
CST NO: 1061575

Emp-CENHRD/276DRLINT
2023/

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. **DILLI BABU.V** of Aalim Muhammed Salegh College of Engineering, has successful completed 15 Days of an internship program from 17.07.2023 to 01.08.2023 in the Assembly & Controller department of our organization

He was highly motivated and hardworking: He worked sincerely at his tanks and did a very good job
We wish him great success in his future endeavors

H R Manager
Punitha.S

General Manager
Salmankhan.S

CHENNAI ECO MOTORS
New # 4, Aziz Mulk 1st Street,
Thousand Lights, Chennai-600 006.
Ph: 044-2829 0091
TIN No: 33550542310
CST No: 1061515 dt: 18-1-13

MARUTI SUZUKI ARENA

04.08.2023

To Whom So Ever It May Concern

This is to certify that ***Mr. Harish Maan V.*** *(Roll No: 110121114306) Student of* ***Aalim Muhammed Salegh College of Engineering, Chennai – 600 055*** *has undergone his Internship training with us for two weeks as a part of his Third year B.E., (Mechanical Engg) course from 5th July 2023 to 19th July 2023.*

For Vishnu Cars Private Limited.

Asst Manager - HR

Vishnu Cars Private Limited, # 203 to 206, Mount Poonamallee Road, Kattupakkam, Chennai - 600 056. Contact No. : 044-2679 2961-67
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CERTIFICATE

THIS IS TO CERTIFY THAT

Amresh Pattanaik

HAS SUCCESSFULLY COMPLETED THE COURSE ON

C PROGRAMMING LANGUAGE

Granted on: 19-08-2023

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Cell : 93818 71768
93832 45445

SREE BALAJI INDUSTRIES

Plot No. 59, Padavattamman Indl. Estate, (N.P.) Sidco,
Ambattur, Chennai - 600 098.

Ref :

Date.....

CERTIFICATE FOR INTERNSHIP

TO WHOMESOVER IT MAY CONCERN

THIS IS TO CERTIFY THAT **MR GIRI M** STUDENT OF **"AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING" CHENNAI-600065.** HAS SUCCESSFULLY COMPLETED 18 DAYS (FROM 10TH JULY 2023 – 29TH 2023) INTERNSHIP PROGRAM AT **SREE BALAJI INDUSTRIES AMBATTUR, CHENNAI**

SREE BALAJI INDUSTRIES CHENNAI 600 098

VISHAL SHANMUGA SUNDARAM,

PLANT HEAD,

SREE BALAJI INDUSTRIES.

Cell : 93818 71768
93832 45445

SREE BALAJI INDUSTRIES

Plot No. 59, Padavattamman Indl. Estate, (N.P.) Sidco,
Ambattur, Chennai - 600 098.

Ref :

Date.....

CERTIFICATE FOR INTERNSHIP

TO WHOMESOVER IT MAY CONCERN

THIS IS TO CERTIFY THAT **MR SIVAKARTHIKAYAN B** STUDENT OF **"AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING" CHENNAI-600065.** HAS SUCCESSFULLY COMPLETED 18 DAYS (FROM 10TH JULY 2023 – 29TH 2023) INTERNSHIP PROGRAM AT **SREE BALAJI INDUSTRIES AMBATTUR, CHENNAI**

SREE BALAJI INDUSTRIES CHENNAI 600 098

VISHAL SHANMUGA SUNDARAM,

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93832 45445

SREE BALAJI INDUSTRIES

Plot No. 59, Padavattamman Indl. Estate, (N.P.) Sidco,
Ambattur, Chennai - 600 098.

Ref :

Date.....

CERTIFICATE FOR INTERNSHIP

TO WHOMESOVER IT MAY CONCERN

THIS IS TO CERTIFY THAT **MR SATHISH KUMAR G** STUDENT OF **"AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING" CHENNAI-600065.** HAS SUCCESSFULLY COMPLETED 18 DAYS (FROM 10TH JULY 2023 – 29TH 2023) INTERNSHIP PROGRAM AT **SREE BALAJI INDUSTRIES AMBATTUR, CHENNAI**

SREE BALAJI INDUSTRIES CHENNAI 600 098

VISHAL SHANMUGA SUNDARAM,

PLANT HEAD,

SREE BALAJI INDUSTRIES.

Cell : 93818 71768
93832 45445

SREE BALAJI INDUSTRIES

Plot No. 59, Padavattamman Indl. Estate, (N.P.) Sidco,
Ambattur, Chennai - 600 098.

Ref :

Date.....

CERTIFICATE FOR INTERNSHIP

TO WHOMESOVER IT MAY CONCERN

THIS IS TO CERTIFY THAT **MR VISWA HARIHARAN S STUDENT OF "AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING" CHENNAI-600065.** HAS SUCCESSFULLY COMPLETED 18 DAYS (FROM 10TH JULY 2023 – 29TH 2023) INTERNSHIP PROGRAM AT **SREE BALAJI INDUSTRIES AMBATTUR, CHENNAI**

SREE BALAJI INDUSTRIES CHENNAI 600 098

VISHAL SHANMUGA SUNDARAM,

PLANT HEAD,

SREE BALAJI INDUSTRIES.

Cell : 93818 71768
93832 45445

SREE BALAJI INDUSTRIES

Plot No. 59, Padavattamman Indl. Estate, (N.P.) Sidco,
Ambattur, Chennai - 600 098.

Ref.

Date.....

CERTIFICATE FOR INTERNSHIP

TO WHOMESOVER IT MAY CONCERN

THIS IS TO CERTIFY THAT **MR RONALD JOSEPH** STUDENT OF **"AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING" CHENNAI-600065.** HAS SUCCESSFULLY COMPLETED 18 DAYS (FROM 10TH JULY 2023 – 29TH 2023) INTERNSHIP PROGRAM AT **SREE BALAJI INDUSTRIES AMBATTUR, CHENNAI**

SREE BALAJI INDUSTRIES CHENNAI 600 098

VISHAL SHANMUGA SUNDARAM,

PLANT HEAD,

SREE BALAJI INDUSTRIES.

सवारी डिब्बा कारखाना, चेन्नै – 600 038

रेल मंत्रालय की एक उत्पादन इकाई

INTEGRAL COACH FACTORY, CHENNAI - 600 038

A Production Unit Under Ministry of Railways

(AN ISO 9001, ISO 14001 AND BS 18001 CERTIFIED PRODUCTION UNIT)

(ISO/TS 22163:2017-IRIS, ISO 9001:2015-QMS, ISO 14001:2015-EMS, ISO 45001:2018-OHSMS, ISO 50001:2018-EnMS Certified)

Sl.No. : M/158/2023

Date : 28.07.2023

Certificate

This is to certify that Mr./Ms. MARK ANTONY J

Regn.No 110121114011 *Course* BE

Branch MECHANICAL, SECOND *Year, Student of*

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING, CHENNAI - 600 055.

has undergone Internship Training from 12.07.2023 *to* 28.07.2023

at Integral Coach Factory.

Principal 28/7/23

Technical Training Centre

ICF, Chennai-38

No. : 38876

एन एस आई सी
N S I C

राष्ट्रीय लघु उद्योग निगम लिमिटेड

THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(A Govt. of India Enterprise)

NSIC - TECHNICAL SERVICES CENTRE

Sector B-24, Guindy Industrial Estate, Ekkaduthangal, Chennai - 600 032.

CERTIFICATE

This is to certify that Mr. **M. SYED IBRAMSHA** S/o. Shri. **S. MOHAMED SALEEM,** student of III year B.E. (Mechanical), Aalim Muhammed Salegh College of Engineering, has undergone **"Virtual Internship Training on DEVELOPMENT OF PLC CONTROLS AND INDUSTRIAL AUTOMATION"** conducted by us for a period of two weeks from 12.07.2023 to 26.07.2023.

NSIC TECHNICAL SERVICES CENTRE
A GOVT. OF INDIA ENTERPRISE
CHENNAI-600 032

HEAD OF TRAINING

HEAD OF CENTRE

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
(Permanently Affiliated to Anna University)

PROJECT (2020-24) BATCH LIST

EE8811-PROJECT WORK DETAILS DATE: 11.05.24

Batch Number	Register Number	Students Name	Project Title	Project Guide
1	110120105001	ABDUL BASITH B	Next Generation E- cycle	Dr.A.Mohanasundaram
	110120105002	AHAMED MYDEEN S		
	110120105008	MOHAMED JASIM A		
	110120105011	MOHAMMED RILWAN L		
2	110120105004	ASADULLAH T	IoT Based Virtual Doctor for pandemic Situation	Dr. Mohammed Feros Khan J
	110120105009	AHAMED ZIFRI A		
	110120105013	SYED MAKDUM S.J.		
3	110120105005	KARTHIK S	Irrigation system control using IoT	Dr.A.Mohanasundaram
	110120105010	MOHAMED TOWFIQ A		
	110120105311	MOHAMMED AUTIFF K		
4	110120105006	KISHORE P	PV power based DC-DC converter for high efficiency EV battery charging system	Er.M.S.Rajan
	110120105302	AKBAR BASHA S		
	110120105312	MOHAMMED MUJEEB M		
	110120105315	YOGESHWARI R		
5	110120105007	MOHAMED AKRAM N	Solar and wind power switching using IoT for smart appliances	Er.Rameez Raja
	110120105303	AL FAREEDH K		
	110120105314	MOHAMMED SUHAIL ASADULLAH I		
6	110120105309	MOHAMED SHAITH KABEER N	Next Generation Electric bike	Er.Rameez Raja
	110120105301	AHAMED AAZEEM S		
	110120105307	MOHAMED MUSSAMIL A		
	110120105313	MOHAMMED RASHEED M		
7	110120105012	MOHAMMED SALEEM T	Design of high speed train model with T-section induction motor for hyper loop applications	Dr.A.Mohanasundaram
	110120105305	BABU K		
	110120105310	MOHAMMED ABID M A		

PROJECT COORDINATOR
(Dr.A.MOHANASUNDARAM)

HEAD/EEE
RAMEEZ RAJA I.C

PRINCIPAL

CERTIFICATE OF EVALUATION

COLLEGE NAME : AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

BRANCH : ELECTRICAL AND ELECTRONICS ENGINEERING

PROJECT TITLE : NEXT GENERATION E-vehicle

NAME OF THE SUPERVISOR : Prof.Dr.A.MOHANASUNDARAM

NAME OF THE STUDENTS	REG.NUMBER
MOHAMMED MUSSAMMIL.A	110120105307
A,MOHAMED SHAJITH KABEER.	110120105309
MOHAMED RASHEED	110120105313
AHAMED AAZEEM.S	110120105301

The report of this **EE 8811-Project work** is submitted by the above students in partial fulfillment for the award of Bachelor of Engineering Degree in **Electrical and Electronics Engineering** of Anna University are evaluated and confirmed to report of the work done by the above students during the academic year of 2023-2024.

This report work is submitted for the University practical examination held on 11-05-24.

11/05/24

INTERNAL EXAMINER

11/05/24

EXTERNAL EXAMINER

SMART FARMING SYSTEM USING IOT FOR RURAL AREAS

(3)

A PROJECT REPORT

Submitted by

S.KARTHIK

A. MOHAMED TOWFIQ

K. MOHAMMED AUTIFF

In partial fulfillment for award of the degree

of

BACHELOR OF ENGINEERING

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING,

MUTHAPUDUPET, AVADI-I.A.F, CHENNAI-600 055.

ANNA UNIVERSITY: CHENNAI-600 025

MAY 2024

BONAFIDE CERTIFICATE

Certified that this project report **"SMART FARMING SYSTEM USING IoT FOR RURAL AREAS"** is the bonafide work of **"S. KARTHIK, A. MOHAMED TOWFIQ, K. MOHAMMED AUTIFF"** who carried out the project work under my supervision.

SIGNATURE

Prof .K.RAMEEZ RAJA

HEAD OF THE DEPARTMENT

Department of Electrical
& Electronics Engineering
Aalim Muhammad salegh
College of Engineering
Avadi-IAF,Muthapudupet
Chennai-600 055

10/5/24

SIGNATURE

Prof.Dr.A.MOHANASUNDARAM

SUPERVISOR

Department of Electrical
& Electronics Engineering
Aalim Muhammad salegh
college of Engineering
Avadi-IAF,Muthapudupet
Chennai-600 055

CERTIFICATE OF EVALUATION

COLLEGE NAME : AALIM MUHAMMED SALEGH COLLEGE ENGINEERING

BRANCH : ELECTRICAL AND ELECTRONICS ENGINEERING

PROJECT TITLE : SMART FARMING SYSTEM USING IOT FOR RURAL AREAS.

NAME OF THE SUPERVISOR : Prof. Dr.A.MOHANASUNDARAM

NAME OF THE STUDENTS	REG.NUMBER
S.KARTHIK	110120105005
A.MOHAMED TOWFIQ	110120105010
K.MOHAMMED AUTIFF	110120105311

The report of this **EE8811-Project Work** is submitted by the above students in partial fulfillment for the award of **Bachelor of engineering degree in Electrical and Electronics Engineering** of Anna University are evaluated and confirmed to report of the work done by the above students during the academic year of 2023-2024.

This report work is submitted for the University practical examination held on 11-05-2024 .

11/05/24

INTERNAL EXAMINER

11/05/24

EXTERNAL EXAMINER

NEXT GENERATION ELECTRIC BIKE

A PROJECT REPORT

Submitted by

MOHAMED MUSSAMMIL.A

MOHAMED SHAJITH KABEER.N

MOHAMED RASHEED

AHAMED AAZEEM.S

In partial fulfillment for award of the degree

of

BACHELOR OF ENGINEERING

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

MUTHAPUDUPET, AVADI - I.A.F, CHENNAI-600 055

ANNA UNIVERSITY: CHENNAI-600 025

MAY 2024

BONAFIDE CERTIFICATE

Certified that this project report **"NEXT GENERATION E-VEHICLE"** is Bonafide work of **MOHAMED MUSSAMMIL.A,MOHAMED SHAJITH KABEER.N,MOHAMED RASHEED,AHAMED AAZEEM.S** who carried out the project work under my supervision.

11/5/2024

SIGNATURE

Er. K.RAMEEZ RAJA

HEAD OF THE DEPARTMENT

Department of Electrical

& Electronics Engineering

Aalim Muhammad Salegh

College of Engineering

Avadi-IAF, Muthapudupet

Chennai-600 055

11.5.24

SIGNATURE

Prof. Dr.A.MOHANASUNDARAM

SUPERVISOR

Department of Electrical

& Electronics Engineering

Aalim Muhammad Salegh

College of Engineering

Avadi-IAF, Muthapudupet

Chennai-600 055

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

2020-24 BATCH - PROJECT WORK

REVIEW MARKS

S.NO	BATCH NUMBER	REG.NO	NAME OF THE STUDENT	GUIDE NAME	PROJECT TITLE	ZEROTH REVIEW MARKS (20)	FIRST REVIEW MARKS (20)	TOTAL (40)
1	1	110120114002	Ameer Abdullah A.A	Mr.R.Manikandan	E-Waste Based Polymer Composites	15	20	35
2		110120114014	A.Mohamed Jasim			20	15	35
3		110120114020	Syed Mohamed Adil S. M.			20	15	35
4		110120114326	Muhammed Amri N			15	0	15
5	2	Transfer	Dilli Ganesh	Mr.Mohamed Yahiya	Solar E-Cycle	15	15	30
6		Transfer	Kishore Kumar			15	15	30
7		110120114327	Rahim Basha A			15	20	35
8		110120114313	Haridass			10	15	25
9	3	110120114004	Amresh	Mr.P.Muniraja Chandra	Enhancement of Heat Transfer For Industrial Helmet Using Nano PCM	15	15	30
10		110120114005	Bathula Pranay Kumar Reddy			15	15	30
11		110120114012	Mohamed Harish.M			15	0	15
12		110120114013	Mohamed Hussain			15	15	30

13	4	110120114302	Abdul Haq	Mr.T.N.Jafar Ali	Development of Drop wise & Film wise Condensation Apparatus	10	15	25
14		110120114321	Mohamed Mohsin G A			20	20	40
15		110120114329	Robinson R			20	15	35
16		110120114336	Thanaz Nowsheer T			20	20	40
17	5	110120114306	Amirudeen	Dr.S.Ramkumar	Design & Development of Oil Dispenser Cap	10	15	25
18		110120114307	Anees Ahamed K			20	20	40
19		110120114310	Bharathraj			20	10	30
20		110120114334	Sri. S			0	10	10
21	6	110120114311	Haashid Mohamed R	Dr.S.Ramkumar	Design & Development of Bio-Toilet	20	20	40
22		110120114318	Mohamed Ibrahim M			15	15	30
23		110120114319	Mohamed Iman			15	15	30
24		110120114322	Mohamed Sheik Jasin S			15	15	30
25	7	110120114308	Ashuq Malik	Mr.R.Manikandan	Experimental Investigation of Mechanical Properties on UFBP Reinforced Polymer Composite	15	20	35
26		110120114309	Badrinath			20	20	40
27		110120114325	Mohamed Riyasudeen			15	15	30
28		110120114335	Syed Kaif A			15	20	35
29	8	110120114001	Abdur Rahim	Dr.S.Sathish	Investigation on the corrosion and wear behaviour of laser cladded mild steel	10	15	25
30		110120114006	Deva Renil D			20	20	40
31		110120114016	S. Nifran Roshan			10	15	25

32		110120114320	Mohamed Imran A H			10	20	30
33	9	110120114009	H.J.Mohamed Arsath	Dr.S.Ramkumar	Development of IoT based Home Automation Kit	15	0	15
34		110120114011	M.S Mohamed Faiz			15	0	15
35		110120114018	Shaik Mohamed Mukhsit. U			15	20	35
36		110120114323	Mohamed Umair P S			15	20	35
37	10	110120114312	Haatim Mohamed N	Mr.P.Muniraja Chandra	Quad copter Drone - Agricultural Sprayer	10	15	25
38		110120114331	Sabic Hamood. S			10	15	25
39		Transfer	Sayyed Samir Shamim. S			10	0	10
40		110120114317	Kayserdeen. M			10	10	20
41	11	110120114008	S Jaffar Sadiq	Dr.C.Rameshkumar	Development of Pool Boiling & Flow Boiling Apparatus	0	15	15
42		110120114010	Mohamed Arshad N			10	15	25
43		110120114015	Mohammad Afzal. K			10	15	25
44		110120114303	Abdullah. A			10	0	10
45	12	110120114022	Velmurugan C	Mr.T.N.Jafar Ali	Design & Fabrication of Solar Panel Cleaning Machine	10	20	30
46		110120114007	Giri. M			10	15	25
47		110120114017	G.Sathishkumar			10	20	30
48		110120114333	Sivakarthikeyan B			10	15	25

49	13	110120114003	Ameerudeen	Mr.Mohammed Yousuf	Experimental Investigation of 3D printed self healing GFRP Composite during Impact Testing	10	15	25
50		110120114021	Taufeek. N			10	20	30
51		110120114324	Mohammed Aqeel J			10	15	25
52		110120114019	T Syed Faraz			0	15	15

*** 0 - ABSENT**

PROJECT COORDINATOR

19/3/24

HOD-MECH

19/3/2024

PRINCIPAL

INNOVATIVE AND UTILIZATION OF E-WASTE POWDER, DRIED BANANA LEAF & NANOSILICA BASED EPOXY COMPOSITES FOR SUSTAINABLE MATERIAL APPLICATION

A PROJECT REPORT

Submitted by

AMEER ABDULLAH	110120114002
MOHAMED JASIM	110120114014
SYED MOHAMED ADIL	110120114020
MUHAMMED AMRI	110120114326

In partial fulfilment for the award of the

degree of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

CHENNAI

ANNA UNIVERSITY: CHENNAI 600025

MAY-2024

BONAFIDE CERTIFICATE

Certified that this project report "**INNOVATIVE UTILIZATION OF E-WASTE POWDER, DRIED BANANA LEAF & NANOSILICA BASED EPOXY COMPOSITES FOR SUSTAINABLE MATERIAL APPLICATIONS** " is the bonafide work of "AMEER ABDULLAH, MOHAMED JASIM,SYED MOHAMED ADIL,MUHAMMED AMRI " who carried out the project workunder my supervision

SIGNATURE

Dr.S. Ramkumar, M.E., Ph.D

HEAD OF THE DEPARTMENT

Associate Professor,

Department of Mechanical Engineering,

Aalim Muhammed Salegh College of Engineering,

Muthapudupet, Avadi- IAF

Chennai-600055

SIGNATURE

Er. R. Manikandan BE., ME

SUPERVISOR

Assistant professor,

Department of Mechanical Engineering,

Aalim Muhammed Salegh College of Engineering,

Muthapudupet, Avadi- IAF

Chennai-600055

CERTIFICATE OF EVALUATION

Certified that this project report "**INNOVATIVE UTILIZATION OF E-WASTE POWDER, DRIED BANANA LEAF & NANOSILICA BASED EPOXY COMPOSITES FOR SUSTAINABLE MATERIAL APPLICATIONS**" is the bonafide work of "AMEER ABDULLAH, MOHAMED JASIM, SYED MOHAMED ADIL , MUHAMMED AMRI " as their project work

Submitted on: 13/5/2024

Appeared for the university examination held on: 13/5/2024

INTERNAL EXAMINER **EXTERNAL EXAMINER**

COLLEGE SEAL

SOLAR ELECTRIC CYCLE

A PROJECT REPORT

Submitted by

DILLI GANESH.S

KISHORE KUMAR.A

RAHIM BASHA.A

HARI DASS.C

In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

ANNA UNIVERSITY: CHENNAI 600025

MAY/JUNE: 2024

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report " **SOLAR ELECTRIC CYCLE** " is the Bonafide work of "**DILLI GANESH.S , KISHORE KUMAR.A , RAHIM BASHA.A , HARI DASS.C**" who carried out the project work under my supervision.

SIGNATURE

Dr. S. RAMKUMAR M.E, Ph.D.,

HEAD OF DEPARTMENT

Department of mechanical
Engineering,
Aalim muhammed salegh
College of engineering
Avadi-IAF,
Chennai 600055.

SIGNATURE

Mr. MOHAMED YAHIYA B.E , M.E ,

SUPERVISOR

Department of mechanical
Engineering,
Aalim muhammed salegh
College of engineering
Avadi-IAF,
Chennai 600055.

CERTIFICATE OF EVALUATION

Certified that this project report " **SOLAR ELECTRIC CYCLE** " is the Bonafide work of "**DILLI GANESH.S , KISHORE KUMAR.A , RAHIM BASHA.A , HARI DASS.C**" as their project work.

Submitted on: 13-05-2024

Appeared for the university examination held on: 13-05-2024

INTERNAL EXAMINER

EXTERNAL EXAMINER

COLLEGE SEAL

CRACK INVESTIGATION AND MECHANICAL PROPERTY EVALUATION OF WELDED MILD STEEL JOINTS USING MAGNETIC PARTICLE TESTING

A PROJECT REPORT

Submitted by

AMRESH PATTANAIK	**110120114004**
PRANAY KUMAR	**110120114005**
MOHAMED HARISH	**110120114012**
MOHAMED HUSSAIN	**110120114013**

in partial fulfilment for the award of

the degree of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

ANNA UNIVERSITY, CHENNAI 600 025

MAY 2024

ANNA UNIVERSITY, CHENNAI – 600 025

BONAFIDE CERTIFICATE

Certified that this project report **"CRACK INVESTIGATION AND MECHANICAL PROPERTY EVALUATION OF WELDED MILD STEEL JOINTS USING MAGNETIC PARTICLE TESTING"** is the bonafide work of **"AMRESH PATTANAIK (110120114004), PRANAY KUMAR (110120114005), MOHAMED HARISH (110120114012), MOHAMED HUSSAIN (110120114013)"** who carried out project work under my supervision

SIGNATURE
13/5/24
Dr.RAM KUMAR, M.E, Ph.D

HEAD OF THE DEPARTMENT

Department of Mechanical Engineering
Aalim Muhammed Salegh
College of Engineering
Muthapudupet, Avadi IAF,
Chennai 600055

SIGNATURE
13/5/24
Mr. P. MUNIRAJACHANDRA M.TECH (Ph.D)

SUPERVISOR

Department of Mechanical Engineering
Aalim Muhammed Salegh
College of Engineering
Muthapudupet, Avadi IAF,
Chennai 600055

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

CERFICATE OF EVALUATION

COLLEGE NAME : AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

BRANCH : MECHANICAL ENGINEERING

PROJECT TITLE : CRACK INVESTIGATION AND MECHANICAL PROPERTY EVALUATION OF WELDED MILD STEEL JOINTS USING MAFGNETIC PARTICLE TESTING

NAME OF THE STUDENT	REGISTRATION NUMBER	NAME OF THE SUPERVISOR
AMRESH PATTANAIK	110120114004	
PRANAY KUMAR	110120114005	Mr. P. MUNI RAJACHANDRA
MOHAMEDHARISH	110120114012	
MOHAMED HUSSAIN	110120114013	

The report of this project is submitted by the above students in partial fulfilment. For the award of Bachelor of Engineering in **MECHANICAL ENGINEERING** of Anna University are evaluated and confirmed to report of the work done by the above students during the academic year of 2023-2024

This report work is submitted for the Anna University project viva voce work held on 13.05.24. FN

INTERNAL EXAMINER

EXTERNAL EXAMINER

DETERMINATION HEAT TRANSFER COEFFICENT IN FLIM WISE AND DROP WISE CONDANSATION APPARATUS

A PROJECT REPORT

Submitted by

ABDUL HAQ.Y	110120114302
MOHAMED MOHSIN G.A	110120114321
ROBIN SON.R	110120114329
THANAZ NOWSHEER	110120114336

In partial fulfillment for the award of the

degree Of

BACHELOR OF ENGINEERIN
In MECHANICALENGINEERING

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
CHENNAI -600055

ANNA UNIVERSITY:CHENNAI-600055

MAY2024

BONAFIDECERTIFICATE

Certified that this project report **"DETERMINATION OF HEAT TRANSFER COEFFICIENT IN FLIM WISE AND DROP WISE CONDANSATION APPARATUS"** is the bonafide work of ABDUL HAQ, MOHAMED MOHSIN, ROBINSON , THANAZ NOWSHEER " who carried out the project work under my supervision.

SIGNATURE

Dr.S.Ramkumar ,M.E.,Ph.D

HEAD OF THE DEPARTMENT

Associate Professor,

Department of Mechanical

Engineering,

Aalim Muhammed Salegh

College of Engineering,

Muthapudupet, Avadi-IAF

Chennai-600055

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13.05.24

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CERTIFICATE OF EVALUATION

Certified that this project report"**DETERMINATION OF HEAT TRANSFER COEFFICENT IN FLIM WISE AND DROP WISE CONDANSATION APPARATUS"**is the bonafide work of"ABDUL HAQ, MOHAMED MOHSIN, ROBINSON, THANAZ NOWSHEER "as their project work

Submitted on: 13/5/24

Appeared for the university examination held on: 13/5/24

INTERNALEXAMINER **EXTERNALEXAMINER**

COLLEGESEAL

DESIGN AND FABRICATION OF OIL CAP

A PROJECT REPORT

Submitted by

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ANEES AHAMED K (110120114307)
BHARATH RAJ R (110120114310)
SRI S(110120114334)

In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING, CHENNAI-600 055

ANNA UNIVERSITY: CHENNAI 600 025

MAY 2024

BONAFIDE CERTIFICATE

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The project report submitted for the viva voce held on 13/05/2024

INTERNAL EXAMINER

ALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING CHENNAI 600 055

13/5

EXTERNAL EXAMINER

DESIGN AND DEVELOPMENT OF POULTRY FEEDING MACHINE WITH AN IOT CONTROL

A PROJECT REPORT

Submitted by

HAASHID MOHAMED R	**110120114311**
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PROJECT TITLE : DESIGN AND DEVELOPMENT OF POULTRY FEEDING MACHINE WITH AN IOT CONTROL

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This report work is submitted for the Anna University project viva voce work held on 13-05-2024

INTERNAL EXAMINER

EXTERNAL EXAMINER

STUDY OF MECHANICAL BEHAVIOUR ON ULTRAFINE FISH BONE POWDER REINFORCED GLASS FIBRE COMPOSITES

A PROJECT REPORT

Submitted by

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Submitted on :.....13/05/2024.....

Appeared for the university examination held on:.....13/05/2024.....

INTERNALEXAMINER

EXTERNALEXAMINER

COLLEGE SEAL

INVESTIGATION ON THE CORROSION BEHAVIOUR OF LASER CLADDED STAINLESS STEEL

A PROJECT REPORT

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MAY - 2024

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Submitted on: 13-05-2024

Appeared for the university examination held on: 13-05-2024

INTERNAL EXAMINER **EXTERNAL EXAMINER**

COLLEGE SEAL

IOT BASED HOME AUTOMATION

A PROJECT REPORT

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MAY 2024

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INTERNAL EXAMINER

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COLLEGE SEAL

QUADCOPTER DRONE AGRICULTURE SPRAYER

A PROJECT REPORT

Submitted By

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Submitted on: 13-05-2024

Appeared for the University Examination held on 13.05.2024

INTERNAL EXAMINER **EXTERNAL EXAMINER**

COLLEGE SEAL

OPTIMIZATION OF EPOXY CRAB POWDER COATING ON STEELSURFACE FOR BETTER ADHESION, WEAR AND THERMAL PERFORMANCE

A PROJECT REPORT

Submitted by

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MAY/2024

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Submitted on : 13-05-2024

Appeared for the university examination held on : 13-05-2024

INTERNAL EXAMINER

EXTERNAL EXAMINER

COLLEGE SEAL

AUTOMATIC SOLAR PANEL CLEANING SYSTEM

A PROJECT REPORT

Submitted by

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MAY/2023

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Submitted on :....13/5/24.....

Appeared for the university examination held on :....13/5/24.....

INTERNAL EXAMINER

EXTERNAL EXAMINER

COLLEGE SEAL

SELF-HEALING CAPABILITIES OF 3D PRINTED GLASS FIBER REINFORCED POLYMER (GFRP) COMPOSITE: TENSILE AND FLEXURAL TESTING

A PROJECT REPORT

Submitted by

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in partial fulfilment for the award of the degree

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IN

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ANNA UNIVERSITY:CHENNAI 600 025

MAY - 2024

ANNA UNIVERSITY, CHENNAI – 600 025

BONAFIDE CERTIFICATE

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The report of this project is submitted by the above students in partial fulfilment. For the

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Is evaluated and confirmed to report of the work done by the above students

during the academic year of 2023-2024

This report work is submitted for the Anna University project viva voce work held on 13/5/2024

INTERNAL EXAMINER

EXTERNAL EXAMINER

COLLEGE SEAL

ADVANCED MARINE DEBRIS DETECTION SYSTEM

A PROJECT REPORT

Submitted by

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MOHAMED JAASIR. A

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BACHELOR OF ENGINEERING

IN

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E. Ganesh 10/5/24

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ABSTRACT

Plastic pollution in our oceans is a global crisis, threatening marine life and ecosystems. Traditional methods of quantifying marine debris are costly and labour-intensive. In this project, we propose a scalable, real-time solution using deep learning techniques for marine debris detection. By harnessing the power of convolutional neural networks (CNNs) and ensemble learning, we aim to enhance detection accuracy and provide a robust solution for monitoring plastic pollution in Earth's oceans.

We present the methodology, results, and analysis of our study, comparing the performance of a Simple CNN, Random Forest, and an ensemble of both. Our findings show that the ensemble model outperforms individual models, achieving perfect accuracy and an F1 score of 1.0. Additionally, we explore the application of object detection using the Clarifai API, providing a user-friendly interface for real-time detection. We have developed a Voila app, which offers a graphical interface for easy interaction with the Clarifai object detection model. The Voila app allows users to upload images and receive real-time object detection results, making the model accessible to a wider audience.

Through this research, we contribute to environmental awareness and offer a long-term solution to combat plastic pollution in our oceans.

SECURE ONLINE VOTING SYSTEM USING BLOCKCHAIN TECHNOLOGY

A PROJECT REPORT

Submitted by

ABDUL HALIK H	**110120104003**
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MAY - 2024

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E Ganesh 10/5/24

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ABSTRACT

In any democratic country, Voting is a fundamental part of democratic systems; it gives individuals in a community the facility to voice their opinion. In recent years, voter turnout has diminished while concerns regarding integrity, security, and accessibility of current voting systems have escalated. They are plagued by issues of security vulnerabilities, voter fraud, and lack of transparency, undermining the integrity of elections and eroding public trust. E-voting was introduced to address those concerns; however, it is not cost-effective and still requires full supervision by a central authority. The blockchain is an emerging, decentralized, and distributed technology that promises to enhance different aspects of many industries. Expanding e-voting into blockchain technology could be the solution to alleviate present concerns in e-voting. In this paper, we propose a blockchain-based voting system, named BC Vote that preserves voter privacy and increases accessibility, while keeping the voting system transparent, secure, and cost-effective. It represents a paradigm shift in democratic governance, leveraging blockchain technology to revolutionize electoral process. BC Vote implements a voting framework that utilizes Ethereum's blockchain and smart contracts deployed on blockchain, govern rules of elections, ensuring fairness and transparency throughout voting cycle. Our implementation was deployed on Ethereum's test network to demonstrate usability and scalability.

WATER QUALITY MONITORING SYSTEM USING IOT

A PROJECT REPORT

Submitted by

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AKASH.A

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MAY 2024

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E. Ganesh 10/5/24

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ABSTRACT

In the contemporary ecosphere, Water contamination is one of the foremost easons for numerous categories of water-borne viruses such as dengue, cholera and alaria etc. for hominid. 40% of universal diseases are produced by water ontamination.

o, the eminence of the drinking water wants to be restrained in real time although it provided to customers. In this project, we propose a development and extension of real time water eminence computing structure at compact cost using Internet of hings (IoT).The centralized arrangement obtains the monitored standards from everal devices over a period of time. Through the Wi-Fi structure, the sensor output ata is sent to the concerned authority for additional stages to advance the water quality

urthermore, the system incorporates automatic alerting mechanisms to notify users case of abnormal water quality conditions, thus allowing prompt intervention and reventive measures. The modular design of the system ensures scalability and exibility to accommodate additional sensors or functionalities as per specific pplication requirements.

Overall, the presented automatic water quality monitoring system leveraging Arduino Uno in the IOT environment provides an effective and reliable solution for continuous monitoring and management of water quality, contributing to the preservation and onservation of this vital natural resource.

EDU TASK CENTRAL

A PROJECT REPORT

Submitted by

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ABSTRACT

In today's technologically driven educational landscape, efficient task management is paramount for the smooth operation and delivery of high-quality education. To address this need, we propose the development of a centralized task management tool tailored specifically for educational institutions. Leveraging the MEVN stack—comprising Vue.js, Node.js, Express.js, and MongoDB—we aim to create a robust solution capable of enhancing communication, streamlining workflows, and maintaining schedules. Through a comprehensive dashboard, stakeholders can monitor progress and efficiently manage tasks, thereby improving communication, collaboration, and overall operational efficiency. By harnessing the power of the MEVN stack, this project has the potential to revolutionize educational management, ultimately enhancing the quality of education for students.

SMS SPAM DETECTION USING NAIVE BAYES ALGORITHM

A PROJECT REPORT

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ABSTRACT

SMS spam has become a pervasive issue affecting millions of people worldwide, leading to inconvenience, wasted time, and potential financial scams. Detecting SMS spam accurately and in real-time is imperative to mitigate its impact. we propose a method for SMS spam detection utilizing the Naive Bayes algorithm. The Naive Bayes classifier calculates posterior and likelihood probabilities to distinguish between spam and legitimate messages. To validate the effectiveness of our approach, we conducted extensive testing and evaluation using the UCI dataset. The Naïve Bayes algorithm outperformed other approaches, achieving a respectable accuracy rate of above 90%. we confirmed its efficiency in accurately detecting SMS spam in real-world scenarios

ADVANCED CCTV ANALYTIC SOLUTION

A PROJECT REPORT

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Abstract

Surveillance system is a network of interconnected devices and technologies designed to monitor, record, and analyze activities in a particular area or environment. The primary purpose of surveillance systems is to enhance security, gather data for analysis, and provide insights into various aspects of the monitored space. These systems are commonly used in a wide range of settings, including public spaces, commercial establishments, residential properties, and governmental facilities. Many surveillance systems rely on motion detection algorithms to trigger alerts. As a result, false alarms are common, leading to alert fatigue and reduced effectiveness.Traditional surveillance systems, however, often face challenges such as limited coverage, manual monitoring, and false alarms, which can hinder their effectiveness in detecting and responding to security threats. In recent years, advancements in artificial intelligence (AI) and computer vision technologies have revolutionized surveillance systems by enabling more intelligent and automated approaches to monitoring and analysis. This project presents an AI-driven surveillance system designed to enhance security by detecting and responding to abnormal activities in real-time. The proposed system utilizes Convolutional Neural Networks (CNN) for behavior classification and YOLOv8 (You Only Look Once version 8) for abnormal activities detection, the system identifies abnormal behaviors and specific objects associated with security threats. Upon detection, an integrated alert system triggers alarms and sends SMS and email notifications to designated personnel, enabling swift response and intervention. The customizable alert settings allow for tailored notifications based on the severity of detected activities. Additionally, the system logs all alerts for post-incident analysis and reporting. By combining advanced AI algorithms with efficient alerting mechanisms, this surveillance system provides proactive security measures and enhances situational.

STOCK PRICE PREDICTION USING A MACHINE LEARNING MODEL

A PROJECT REPORT

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ABSTRACT

In recent decades, there has been a surge in interest among economists, policymakers, academics, and market makers regarding market prediction. Our proposed work focuses on enhancing supervised learning algorithms to predict stock prices. By implementing these algorithms in data mining frameworks, we aim to identify which ones offer the most accurate predictions. This research will not only deepen our understanding of market dynamics but also aid in forecasting the future values of individual stocks. Ultimately, our efforts are geared towards providing valuable insights into financial forecasting, benefiting a wide range of stakeholders. Abstract-Stock price prediction is a difficult task, since it very depending on the demand of the stock, and there is no certain variable that can precisely predict the demand of one stock each dav. However. Efficient Market Hypothesis (EMH) said that stock price also depends on new information significantly. One of many information sources is people's opinion in social media. People's opinion about products from certain companies may determine the company's reputation and thus affecting people's decision to buy the stock of the company.

NEUROEVOLUTION – TRAINING AN AI AGENT IN DYNAMIC ENVIRONMENTS

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ABSTRACT

The field of artificial intelligence (AI) is constantly on the lookout for algorithms that can effectively handle complex problems in dynamic environments. Neuroevolution, a powerful technique that merges the capabilities of neural networks (NNs) and genetic algorithms, has emerged as a promising solution. This project applies neuroevolution to train an autonomous agent for Flappy Bird. NNs receive data on the bird's position and obstacles. The process initializes a population with random movements, evaluates performance, selects the fittest, and uses their genetic material for a new generation. This iterative process continues until proficient birds emerge. The project demonstrates neuroevolution's effectiveness in training agents for dynamic environments. By combining NNs' learning with genetic algorithms' optimization, it offers a promising approach for complex tasks. Results show the genetic algorithm's ability to optimize behavior over generations, enabling birds to learn and adapt, achieving significant performance improvements. Although focusing on Flappy Bird, these principles can apply to robot control, autonomous navigation, and game design. Neuroevolution in game design can create challenging, engaging content, blurring lines between human and AI creativity.

PHISHING WEBSITE URL DETECTION (CONTENT-BASED) MANAGEMENT SYSTEM USING GAUSSIAN NAÏVE BAYES ALGORITHM IN STREAMLIT

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ABSTRACT

The Phishing Website URL Detection (Content-based) Management System is a web application driven by machine learning and built using Streamlit, a popular Python library. Its primary function is to identify whether a given URL is legitimate or a phishing attempt. This is achieved by extracting features from the URL, utilizing machine learning models to analyze these features, and ultimately classifying the URL. The development process involved studying various machine learning models to determine the most effective approach. The application provides users with a reliable tool to detect potential phishing threats by leveraging machine learning techniques to analyze URL features. By doing so, it enables users to take appropriate precautions to safeguard their online security. The utilization of Streamlit for coding and demonstrating the web application ensures accessibility via web browsers. The project utilized datasets from sources such as Kaggle, OpenPhish, and PhishTank for training and testing the machine learning models. The report accompanying the project provides detailed information on the methodology, research, and development process of the web application. Ultimately, the Phishing Website URL Detection (Content-based) Management System aims to enhance internet users' safety by effectively identifying phishing attempts. It is positioned as a valuable and informative tool, particularly for students seeking to contribute to a safer online environment.

CYBERVACCINATOR FOR IMAGE TAMPER RESILIENT AND LOSSLESS AUTO-RECOVERY USING INVERTIBLE NEUTRAL NETWORK

A PROJECT REPORT

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ABSTRACT

Digital images are susceptible to a range of vulnerabilities and threats that can compromise security and privacy in online social networking sites. Image tampering attacks involve the unauthorized or deceptive alteration of digital images, often for the purpose of misrepresentingtheir content or context. Once the images are manipulated, it is hard for current techniques to reproduce the original contents. To address these challenges and combat image tampering, research on image tamper localization has garnered extensive attention. Image Processing andMachine Learning techniques have bolstered image forgery detection, primarily focusing on noise-level manipulation detection. Furthermore, these techniques are often less effective on compressed or low-resolution images and lack self-recovery capabilities, making it challengingto reproduce original content once images have been manipulated. In this context, this projectintroduces an enhanced scheme known as Image Immunizer for image tampering resistance and lossless auto – recovery using Vaccinator and Invertible Neural Network a Deep LeaningApproach. Multitask learning is used to train the network, encompassing four key modules: apply vaccine to the uploaded image, ensuring consistency between the immunized and originalimages, classifying tampered pixels, and encouraging image self-recovery to closely resemble the original image. During the forward pass, both the original image and its corresponding edgemap undergo transformation, resulting in the creation of an immunized version. Upon receivingan attacked image, a localizer identifies tampered areas by predicting a tamper mask. In the backward pass with Run-Length Encoding, hidden perturbations are transformed into information, facilitating the recovery of the original, lossless image and its edge map, ensuring image integrity and authenticity. This proposed technique achieves promising results in real- world tests where experiments show accurate tamper localization as well as high-fidelity content recovery.

"ELECTRICAL CONSUMPTION USING MACHINE LEARNING"

A PROJECT REPORT

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INTERNAL EXAMINER

10/5/24

EXTERNAL EXAMINER

ABSTRACT

This study leverages machine learning techniques to analyze and forecast electricity consumption patterns in Spain using a daily time series dataset spanning 2014 to 2018, obtained from the Spanish Transmission System Operator (REE). The dataset includes electricity demand, generation from various sources (coal, gas, wind, solar, nuclear), and market prices across Spain, France, and Portugal. An exploratory data analysis examines the target variable's distribution, identifying negative skewness and platykurtic characteristics. Feature engineering handles seasonality through techniques like rolling averages and one-hot encoding of categorical variables.

Two candidate models are developed: a baseline linear regression and an advanced random forest model using Scikit-Learn's Multioutput Regression framework. Proper time series cross-validation (Timeseries Split) is employed for tuning the random forest's hyperparameters via grid search. The models are evaluated on a held-out test set from 2018, with the random forest outperforming linear regression. Residual analysis and feature importance assessment are conducted.

Multi-period forecasting capabilities are demonstrated by retraining the tuned random forest on recent data and generating forecasts over future periods using a rolling window approach. The study highlights the potential of machine learning for accurate energy demand forecasting, integration of renewable sources, predictive maintenance, and fostering energy sustainability. Future directions include real-time analytics, IoT integration, and collaboration between AI and human expertise for transparent and accountable models in the energy sector.

WEATHER FORECASTING USING STREAMLIT

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ABSTRACT

Weather prediction is a critical aspect of our daily lives, impacting decisions ranging from what to wear to how we plan our outdoor activities. In this project, we aim to leverage machine learning techniques to predict weather temperatures based on various meteorological parameters. The primary objective is to develop accurate and reliable temperature forecasting models that can assist individuals and organizations in making informed decisions. This Weather Temperature Prediction project represents a valuable contribution to the field of weather forecasting and demonstrates the potential of machine learning in solving real-world problems. Our results demonstrate that machine learning models can provide accurate temperature predictions, with the Random Forest Regression model consistently outperforming the others. By deploying our model via Streamlit, we have created a user-friendly tool that empowers individuals and organizations to make data-driven decisions based on weather forecasts. This project not only showcases the application of machine learning in meteorology but also highlights the practicality of deploying such models in real-world scenarios. As weather plays a crucial role in various industries and daily activities, accurate temperature predictions can significantly benefit society.

HEALTH CARE CHATBOT USING MACHINE LEARNING

A PROJECT REPORT

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ABSTRACT

This paper introduces a healthcare chatbot developed using Python with the Tkinter library for the graphical user interface (GUI). The chatbot serves as a virtual assistant in the healthcare sector, facilitating communication between patients and healthcare providers through natural language interaction.

The primary aim of this project is to showcase the implementation and utility of chatbot technology in improving access to healthcare services and enhancing patient engagement. The chatbot offers a range of features, including symptom assessment, medication reminders, appointment scheduling, and health education, catering to the diverse needs of users.

Built upon natural language processing (NLP) techniques, the chatbot employs machine learning algorithms for natural language understanding (NLU), enabling it to comprehend user queries and provide contextually relevant responses. The Tkinter-based graphical user interface provides an intuitive platform for users to interact with the chatbot, featuring text input fields and a chat log for displaying conversation history.

Integration with external APIs and databases enriches the chatbot's capabilities, enabling access to real-time medical information and personalized recommendations. Evaluation of the chatbot includes user feedback, usability testing, and performance assessment, aiming to gauge user satisfaction, identify usability issues, and measure the efficiency of the chatbot's functionality

In summary, the development of a healthcare chatbot using Python with Tkinter underscores the potential of chatbot technology to revolutionizehealthcare delivery, offering accessible, personalized, and efficient healthcare services to users.

MULTI HAND SIGN LANGUAGE DETECTION AND TRANSLATION IN REAL TIME USING MEDIAPIPE

A PROJECT REPORT

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ABSTRACT

This project introduces a comprehensive solution to address the communication barrier between sign language users and non-users by leveraging the Mediapipe library. Through the utilization of computer vision techniques provided by the Mediapipe library, the system detects and interprets multiple sign language gestures in real time. The Mediapipe library offers a robust framework for processing visual data from video frames, extracting essential information necessary for real-time sign language detection.

Deep learning models within the Mediapipe library play a central role in accurately recognizing and interpreting sign language gestures. These pre-trained models are optimized for various tasks, including hand tracking and gesture recognition, allowing for efficient and accurate detection of sign language gestures without the need for additional algorithm development. By leveraging these pre-trained models, the system achieves high accuracy in recognizing a wide range of sign language gestures.

Moreover, the system benefits from the real-time processing capability provided by the Mediapipe library, ensuring timely detection and interpretation of gestures as they are performed. This real-time processing capability is crucial for facilitating seamless communication between sign language users and non-users in various interactive settings.

FACE BASED ATTENDANCE SYSTEM USING PYTHON OPENCV AND IDENTIFYING CLASS SKIPPER

A PROJECT REPORT

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ABSTRACT

In many of the educational institutions, managing attendance of students/candidates is tedious, as there would be large number of students in the class and keeping track of all is onerous. There are situations where student act as proxies for their friends even though they are not present. The advancement in the history of computer vision utilizing deep learning approaches especially convolutional neural networks have accomplished to solve difficult problems in face recognition field. Face recognition-based approach is one amongst the important identification methods which can be used as a possible substitution for conventional system of marking attendance manually, especially if a huge classroom of students is addressed for an hour session. Our solutions integrate AI capabilities with smart analytics features to facilitate transparency in classrooms and college campus. This project develops an automatic attendance system using Faster R-CNN deep learning based algorithm. In this system, a database containing the trained student's face. A camera installed in the college campus captures the face of all the student in the classroom and other places too.The system records the entire class session and identifies when the students pay attention in the classroom, and then reports to the faculties and also this system can record violations of classroom, that is absence, roaming around the college campus during the class hours and send alert message to the H.O.D. This dynamic attendance system uses face recognition as an important aspect of taking attendance which saves time and proxy attendance and is avoided. The system identifies faces very fast needing only 100 milliseconds to one frame and obtaining a high accuracy. Our face recognition model has an accuracy rate of 98.87%.

CROP YIELD PREDICTION USING RANDOM FOREST ALGORITHM

A PROJECT REPORT

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EXTERNAL EXAMINER

ABSTRACT

Most agricultural crops have been badly affected by the effect of global climate change in India. In terms of their output over the past 20 years. It will allow policy makers and farmers to take effective marketing and storage steps to predict crop yields earlier in their harvest. This project will allow farmers to capture the yield of their crops before cultivation in the field of agriculture and thus help them make the necessary decisions. Implementation of such a method with a web-based graphic software that is simple to use and the machine learning algorithm can then be distributed. The results obtained are granted access to the farmer. And yet there are various methods or protocols for such very data analytics in crop yield prediction, and we are able to predict agricultural productivity with guidance of all those algorithms. It utilizes a Random Forest Algorithm. By researching such problems and issues such as weather, temperature, humidity, rainfall, humidity, there are no adequate solutions and inventions to resolve the situation we face. In countries like India, even in the agricultural sector, as there are many types of increasing economic growth. In addition, the processing is useful for forecasting the production of crop yields.

ACHIEVING PRIVACY-PRESERVING DISCRETE FRECHET DISTANCE RANGE QUERIES

A PROJECT REPORT

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ABSTRACT

The advances in Internet of Things, big data, and machine learning technologies have greatly transformed our daily lives into much more intelligent ones by offering various promising services. Among those services, the discrete Fréchet distance (DFD) range query, which aims to obtain a set of trajectories whose distances to a given query trajectory do not exceed a given threshold, has been widely applied to support applications such as vehicle trajectory clustering and other data processing tasks. Meanwhile, due to the huge data volume issue in the big data era, there is a trend towards outsourcing various query services to the cloud for achieving a better performance. However, since the cloud is not fully trustable, designing privacy-preserving query services becomes a research focus. Over the past years, many schemes focusing on privacy-preserving trajectory analysis have been proposed, but none of them can well support privacy-preserving DFD range queries. Aiming at addressing this challenge, this paper proposes a novel privacy-preserving DFD range query scheme, in which queries are conducted in a filtration-and-verification manner and the privacy of the dataset and queries can be preserved. Specifically, by indexing the dataset with two R-trees, a query can be conducted by i) querying the two R-trees to obtain a candidate set and ii) verifying each trajectory in the set, which involve two basic operations, namely, rectangle intersection detection and proximity detection. To preserve the privacy of the dataset and queries, we build the two basic operations upon a novel Inner-Product Preserving Encryption (IPPE) scheme, which is proved to be selectively secure with trivial leakages. Besides, extensive experiments are conducted, and the results demonstrate that our proposed scheme can significantly reduce the computational cost by effectively reducing the candidate set's size.

TEXT BASED EMOTION DETECTION

A PROJECT REPORT

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INTERNAL EXAMINER

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ABSTRACT

Text emotion detection is a burgeoning field with profound implications for understanding human behaviour, sentiment, and communication patterns. In this project, we present a comprehensive text emotion detection system designed to accurately analyze and categorize emotions expressed in textual data. Leveraging state-of-the-art machine learning models and natural language processing techniques, our system provides users with a user-friendly interface for inputting text and visualizing the detected emotions along with their corresponding probabilities. The system employs pre-trained machine learning models capable of classifying text into predefined emotion categories such as joy, sadness, anger, fear, surprise, disgust, neutral, and shame. Through a web-based interface, users can easily input text and receive instant feedback on the detected emotions, enhancing their understanding of emotional sentiment in textual data. To ensure interpretability and ease of use, the system incorporates interactive visualizations such as bar charts or pie charts to represent emotion predictions and their associated probabilities. This allows users to gain insights into the emotional content of the text and make informed decisions based on the analyzed data. Our system is designed to be scalable and flexible, capable of handling various input text lengths and accommodating future updates and improvements. By exploring practical applications in domains such as social media analysis, customer feedback analysis, and mental health monitoring, we aim to demonstrate the relevance and impact of text emotion detection technology in real-world scenarios. Through this project, we contribute to advancements in natural language processing and sentiment analysis while providing valuable tools for understanding human emotions in textual data. We believe that our text emotion detection system has the potential to revolutionize how we interpret and analyze textual content, leading to improved communication, decision making, and societal understanding.

TIMELY DETECTION OF STEM BORER PEST INFESTATION THROUGH CONVOLUTIONAL NEURAL NETWORK

A PROJECT REPORT

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ABSTRACT

The Yellow Stem Borer (YSB), Scirpophaga incertulas (Walker), is an important pest of rice throughout tropical South and Southeast Asia. The highest incidence of this pestis primarily observed in tropical lowland rice fields and deep-water rice cultivation. Theyield loss caused by the YSB is estimated to be 20% in early-planted rice crops and 80%in late-planted crops. In this paper, we developed a method to detect and classify the forms of YSB using a Convolutional Neural Network (CNN) and then model the infestation migration patterns of YSB in several rice-growing regions by using a CNN learning model. A dedicated CNN architecture is designed, and optimized for its ability to extract features and discern spatial hierarchies indicative of pest presence. Transfer learning techniques, utilizing pre-trained models, enhance the model's capability to recognize subtle patterns associated with pest infestations. The dataset is carefully annotated and augmented to ensure robust model training, with an emphasis on realworld variability. These models can help detect, classify, and model the infestations of other Agricultural pests, improving food security for rice.

FILTERING AIRLINE SENTIMENT FROM TWITTER TWEETS USING NATURAL LANGUAGE PROCESSING

A PROJECT REPORT

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ABSTRACT

The competitive airline sector has experienced rapid growth over the past two decades. Effective data collection is crucial for gathering consumer feedback and conducting various forms of analysis within this dynamic industry. One such analysis is sentiment analysis, which involves extracting sentiments to discern attitudes and emotions associated with the provided text or data. Our Project deals with sentiment analysis techniques applied to the airline industry.

Sentiment analysis employs classification approaches using machine learning techniques to identify positive and negative sentiments within text-driven databases. Additionally, word clouds and bar graphs are utilized to further elucidate the reasons behind negative comments. In this study, sentiment analysis is conducted on the Airline Reviews dataset.

To assess the performance of sentiment analysis, various machine learning algorithms are employed, including Naive Bayes, Support Vector Machine, and Decision Tree. Each approach yields distinct results, highlighting the importance of selecting appropriate algorithms for accurate sentiment analysis within the airline industry.

Keywords from the paragraph:

Airline sector, Rapid growth, Data collection, Consumer feedback, Analysis, Sentiment analysis, Attitudes, Emotions, Machine learning techniques, Classification approaches, Positive and negative sentiments, Word clouds, Bar graphs, Airline Reviews dataset, Performance assessment, Naive Bayes, Support Vector Machine, Decision Tree,

REAL TIME ACCIDENT DETECTION AND ALERT SYSTEM

A PROJECT REPORT

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Abstract

In recent years, there has been a growing need for advanced accident detection and nalysis systems to improve road safety and emergency response times. This project proposes n innovative solution that leverages cutting-edge technology, including computer vision, nachine learning, and real-time data processing, to monitor and classify different types of ccidents from CCTV footage. By implementing convolutional neural networks (CNN) and 'OLO models, the system accurately identifies and classifies accidents or suspicious behavior n real-time.Once an accident is detected, the system automatically captures a snapshot of the cene and alerts the relevant authorities via email, providing them with the live location coordinates and other pertinent information. The project also includes a comprehensive latabase that stores accident details such as location, timestamp, and type, which can be lisplayed on a web-based platform for easy access and analysis.This project not only enhances oad safety by enabling quicker emergency responses but also contributes to data-driven nsights into accident patterns, allowing policymakers and stakeholders to make informed lecisions for improving transportation infrastructure and public safety. Through seamless integration with existing infrastructure and a user-friendly interface, this accident detection and analysis system offers a comprehensive approach to modernizing road safety measures.

MULTI CLASS CLASSIFIER FOR CROP YIELD PREDICTION BASED ON NUTRIENT FEATURES OF THE SOIL

A PROJECT REPORT

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Multi Class Classifier for Crop Yield Prediction based on Nutrient Features of the Soil

Abstract

Crop yield prediction focuses mostly on agricultural research, which have an enormous impact on taking decisions for example import-export, price, along with crop management. Soil is the main component and plays a significant role in agriculture. Based on the nutrients and pH value of the soil, crop yielding is determined. Farmers are still using traditional approach to analysis the soil quality. The techniques like Data Mining, Artificial Intelligence, Machine Learning, Deep learning and Predictive Analytics are the emerging technologies in research to improve the agricultural field. Predictive analysis is a technique of machine learning that predicts the future outcomes and analysis is based on the historical or past data. In agriculture, predictive analytics helps to predict or identify the soil nutrients level required for the crops like Paddy, Raagi, Cumbu etc., Predicting the crop yield well ahead of its harvest would help farmers and market contractors strategize befitting actions to market and store their produce. These kinds of predictions will also help farmers minimize losses due to crop failure and can also help businesses that depend on agricultural products to plan their business logistics and resources. In this project, a method is proposed which would help predict the estimate of the crop yield for a specific land based on the analysis of geographical and climatic data using Machine Learning using LSTM. Firstly, it is able to capture the time dependency on temperature and rainfall. Secondly, it is able to work on a large and diverse dataset, unlike most models which only perform well in small regions. Lastly, it is able to use several diverse features - geographical, social, and economic to make a prediction. In addition to crop prediction, the system helps farmers to monitor the soil nutrients evolution so that action can be done on real time. The main chemical elements which are taken into the proposed model are nitrogen, phosphorus, potassium, hydrogen along with rainfall and temperature.