Archisman Sengupta

Final Year Student, Mechanical Engineering

I am a passionate Mechanical Engineering student with a deep fascination for this field. Additionally, I am interested in Machine Learning, and want to apply these skills to my field of work. I am a very hardworking individual and I have honed my ability to work collaboratively in diverse teams, fostering effective communication and collective problem-solving. I am a fast-learner and I like to think creatively while solving problems.

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WORK EXPERIENCE

Summer Internship
Tata Motors, Jamshedpur

05/2023 - 07/2023

Tasks
- Major improvements made to Kitting Area and Kitting Trolley in Vehicle Factory, Assembly Line 1 along with improvements to Supply Chain Management to Kitting Area.

PERSONAL PROJECTS

Improvement of Kitting Area and Kitting trolley for Assembly Line (05/2023 - 07/2023)
- Improved the design of Kitting Trolleys which was implemented in Vehicle Factory, Assembly Line 1, in Tata Motors Jamshedpur plant.
- Improved the Supply Line Management to the Kitting Area and implement DSL and for various parts.

Safety Helmet Detection - Using YOLO
- Trained a YOLOv8 model that can detect safety helmets and capture image of workers not wearing helmets.
- Live feed from cameras can also be used to detect helmet usage thus improving safety in a work environment.

Analysis of Dimple Effect on Drag on a Passenger car
- Studied the effects of dimples on the surface of a passenger car's body and the corresponding reduction in aerodynamic drag.
- Studied the effects of the shape, size and location of the dimples on the drag coefficient.

Portfolio Website (05/2023 - 06/2023)
- Created a platform to showcase the projects that I have completed and share them with others.
- The website uses Python Flask framework for backend and uses HTML and Bootstrap CSS for backend.

Multi-Terrain Quadcopter Design
- Designed a Quadcopter with the capability to both fly and travel on ground. It would have increased weight carrying capacity and increased maneuverability.

EDUCATION

BTech, Mechanical Engineering
Vellore Institute of Technology, Vellore

09/2020 - 09/2024   *Current CGPA : 8.80*

ISC, 12th Standard
Vivekananda Mission School, Kolkata

03/2019 - 04/2020   *Score : 91.2 %*

Subjects
- English, Bengali, Mathematics, Physics, Chemistry, Computer Science

ICSE, 10th Standard
Vivekananda Mission School, Kolkata

03/2017 - 04/2018   *Score: 95.4 %*

SKILLS

Autodesk Fusion 360 · CATIA · ANSYS · Machine Learning · Python · Machine Learning · Image Processing · YOLO · Java · C++ · MATLAB · Microsoft Excel · Flask · HTML · CSS · FLexSim · PLM · R · DSA · COMSOL Multiphysics

ACHIEVEMENTS

E-Summit Entrepreneurship Cell (04/2022)
I participated in a workshop and came in first runner-up.

CERTIFICATES

Python3 - From Beginner to Pro
Udemy

Machine Learning A - Z (Using Python and R)
Udemy

Microsoft Excel - From Beginner to Advanced
Udemy

Data Science for Engineers
NPTEL

Automate the Boring Stuff with Python Programming
Udemy

Autodesk CAD/CAM/CAE for Mechanical Engineering Specialization (4 courses)
Coursera

LANGUAGES

English
Full Professional Proficiency

Bengali
Native or Bilingual Proficiency

Hindi
Full Professional Proficiency

INTERESTS

Reading Books · Football · Music