



Supragya Shrestha

Roll No.:170103068

B.Tech - Mechanical Engineering

Minor in Electronics and Electrical Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	8.27 (Current)	2017-Present
Senior Secondary	CBSE Board	94.4%	2016
Secondary	CBSE Board	95.0%	2014

EXPERIENCE

- Samsung Research Institute, Noida** May 20 - Jun 20
Software Development Intern git.io/JUZiB
 - Implemented the task of **Human Activity Detection** using **YOLO** Object Detection Model trained on Stanford 40++ Dataset and achieved average mAP of **72.24@0.5**.
 - Built a **Web App** for detecting human activities directly using a web browser with the help of a **Flask App**.

PROJECTS

- Multi-Fault Classification of Induction Motor using Machine Learning** Ongoing
Dr Rajiv Tiwari, Professor, Dept. of ME., IIT Guwahati git.io/JUBSf
 - Employing Deep Learning techniques for detecting and classifying the different kinds of fault occurring in Induction Motors.
 - The proposed algorithm may be employed for condition-based monitoring in industrial equipment reducing human engagement in real-time fault detection and decision making.
- Dehazing - Image Restoration using GANs** Jul 20 - Sep 20
Personal Project git.io/JUZ6x
 - Implemented the task of removing haziness from images (dehazing) using U-Net trained on Reside Dataset and further improved the results obtained using **Pix2Pix** and **CycleGAN**.
- Twident - Microblogging WebApp** May 20 - Aug 20
Personal Project git.io/JUZij
 - Designed a Twitter-like Web application using Bootstrap, **Django**, JavaScript and **React.js**. The application uses Django-REST framework as back-end and React.js as front-end.
- MESA-Website Development** Nov 19 - Apr 20
MESA iitg.ac.in/clubs/mesa
 - Designed a Website for Mechanical Engineering Student's Association and Seismech, the annual Technical Festival of Mechanical Engineering Department using **Bootstrap** and **JavaScript**.

TECHNICAL SKILLS

- Programming Languages:** C++, Python, JavaScript
- Web Technologies:** HTML, CSS, Flask, Django*, ReactJS*
- Database Management:** SQL
- Miscellaneous:** Git, SolidWorks, PyTorch*
- Operating Systems:** Windows, Linux* * Elementary proficiency

KEY COURSES TAKEN

- Computer Science:** Data Structures & Algorithms', Operating Systems', Databases', Introduction to Computing
- Machine Learning:** Introduction to Machine Learning', Deep Learning Specialization'
- Miscellaneous:** Linear Algebra, Machine Design 'MOOCs

POSITIONS OF RESPONSIBILITY

- Departmental Intern Representative**, Centre for Career Development, IITG Sep 19 - Apr 20
- Web Head**, MESA, IITG Nov 19 - Apr 20

ACHIEVEMENTS

- KVPY 2016 Scholarship:** Awarded to 750 senior secondary science students across India.
- JEE Mains 2017:** Secured All India Rank in the top 1% among 1.2M candidates appearing for the test.
- JEE Advanced 2017:** Secured All India Rank in the top 2% among 0.2M candidates appearing for the test.

EXTRACURRICULARS

- Cleared **Google Code Jam** Qualification Round 2020.
- Secured **2nd** Position in Aero-modelling Competition in **Kriti**, the Inter-Hostel Technical Competition, IITG.
- Participated in the Inter-Hostel Mime Competition, IIT Guwahati.