



Amlanjyoti Pegu

Roll No.:200103010

B.Tech - Mechanical Engineering

Indian Institute Of Technology, Guwahati

+91-6913107827

amlan.pegu@iitg.ac.in

vyotiamlan18@gmail.com

Github | Website

linkedin.com/in/amlan-pegu/

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.68 (Current)	2020-Present
Senior Secondary	STATE Board	94.67%	2018
Secondary	STATE Board	95.2%	2020

PROJECTS

- Defect Detection using Deep Learning** Jan. 2023 - May. 2023
BTECH Project Phase-2, Supervisor: Prof. Sukhomay Pal, Dept. of ME Github
 - build a **CNN Algorithm** to detect six common surface defects of hot-rolled steel strips.
 - Used data augmentation to increase the diversity of the training data to improve the model's performance.
 - **Key Technologies:** Python, Tensorflow, NumPy, Pandas, Scikit Learn, Matplotlib.
- Audify** Jun. 2023 - 5th July 2023
Even Semester Project, Coding Club, IIT Guwahati Github
 - Developed a web application for extracting audio from videos of any format like .mp4 or .mov and where the user can download the audio clips in mp3 format.
 - Designed and implemented an intuitive user interface for the audio converter, ensuring a user-friendly experience and integrated FFmpeg for handling the actual video conversion process
 - **Key Technologies:** **HTML**, **CSS** for Frontend design, **NodeJS** for backend functionality, **EJS** as a template language and **MongoDB** to store data.
- Community Chat** 7 July - 20 July 2023
Self Project Github
 - Build a Full Stack Realtime Chat Messaging App with Authentication.
 - With Direct and Group Chats, it also includes features like emojis and reactions, Built-in GIF support, the ability to edit and delete messages, etc.
 - The chat web application is built with stream API, which allows us to build scalable and completely custom chat messaging application
 - **Key Technologies:** HTML, CSS, JS, Nodejs, Reactjs, Stream.
- Logistic Regression Cat Classification with Neural Network** 10 Dec - 20 Dec. 2022
Self Project Github
 - build a simple image-recognition algorithm that can correctly classify pictures as cat or non-cat
 - **Key Technologies:** : Python, Numpy, Deep Learning.

TECHNICAL SKILLS

- Programming:** C++, Python*, Java Script*, Matlab
- Web Technologies:** HTML, CSS, JavaScript, ReactJS, NodeJS
- Tools/Frameworks:** Numpy, Pandas, Tensorflow, Scikit-Learn
- Database management:** MongoDB
- Operating Systems:** Windows, Linux* * Elementary proficiency

KEY COURSES TAKEN

- Mathematics:** Linear Algebra, Basic Calculus
- Computer Science:** Introduction to computing, Computing Lab
- MOOC's:** Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

ACHIEVEMENTS

- Ranked top 25 percentile**, in Summer Analytics, under CnA Club, IIT Guwahati 2023
- Secured State Rank 7**, Board Exam, AHSEC Board, Assam 2020

EXTRA-CURRICULARS

- Robotics Club**, worked on Yuvaan, a Rover Project 2021
- Robotic Arm Project**, participated at TechXhibit, Technical Club Competition, IITG 2021
- 4i Lab Club**, worked on RAMAN, a humanoid project 2022-23