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EDUCATION

Degree/Certificate	${\bf Institute/Board}$	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.52 (Current)	2021-Present
Senior Secondary	CBSE Board	85.0%	2021
Secondary	CBSE Board	91.6%	2019

PROJECTS

• MITRA - weed identification and removal robot

Sep. 2022 - Ongoing Github

41 Labs, IIT Guwahati

- Hardware part: Manufactured a prototype autonomous **weed removal robot** equipped with cameras.

- Software part: Trained a deep learning YOLOv5 (You Only Look Once) model on an annotated dataset of images containing weed species and plant species to identify weeds in real-time by concurrently detecting and classifying several things in an image.
- tStacks: Numpy, Pandas, PyTorch

• House-Price Prediction

Mar. 2023 - April 2023

Self Project

Github

- Visualised housing data using **Matplotlib** and **Seaborn**, providing insightful graphs. Preprocessed the data using **sci-kit learn** library for further analysis.
- Employed a regression approach using the decision tree regressor from sci-kit learn. The model achieved an impressive accuracy rate of 99 percent. Exported the model using pickle for seamless deployment and reusability.
- Stacks: Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, OpenCV, Pickle, Json

• ChitChat

Mar. 2023 - April 2023

Self Project Github

- Designed and developed an Android chat application using Flutter. Implemented secure and efficient user authentication and database management through Google Firestore.
- Ensured that only authenticated users can engage in chat interactions within the application.
- Stacks: Flutter, Firebase

TECHNICAL SKILLS

- Programming Languages: Python, C, C++, HTML, CSS
- \bullet Skills: Data Structures and Algorithms, Flutter, Firestore, MySQL
- Tools/Frameworks: Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, OpenCV, Pickle*, Json*, PyTorch*
- Web Technologies: MATLAB, Fusion 360
- Operating Systems: Windows, MacOS $\,$

* Elementary proficiency

KEY COURSES TAKEN

- Mathematics: Real Analysis, Linear Algebra, Differential Equations, Complex Analysis
- Computer Science: Introduction to Computing, Programming with C
- Machine Learning (Online): Supervised and Unsupervised Machine Learning, Advanced Learning Algorithms
- Mechanical: Mechanical Workshop-I, II, Fluid, Solids, Thermodynamics.

ACHIEVEMENTS

- Rank 873 out of 16000+, Codechef Start98
- Team ranked 3 amongst India's Best 19 Teams, in a Power Train Design Challenge by Formula Bharat.
- AIR 4287, in JEE Advanced 2021 amongst 1 Million candidates
- Rank 164 in STSE, 2019, Rajasthan.
- Best Student Award 2010, All India General Knowledge Test, Knowledge Olympiad Society Hyderabad

Positions of Responsibility

- Marketing, Events and Outreach Head, Automobile Club (IITG RACING)	Apr. 2023 - Ongoing
- Mechanical Head, Mitra, 4i Labs, IIT Guwahati	Apr. 2023 - Ongoing
- Events Executive, Election Commission, IIT Guwahati	Apr. 2022 - Mar. 2023
- Executive Maintenance Committee Brahmanutra Hostel IIT Guwahati	Apr 2022 - Mar 2023