Vasu Pandey

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📍 Guwahati   ✉ iamvasu93@gmail.com   📞 +91 8576088400   in vasupandey   ⬡ vasupandey85

Education

Indian Institute of Information Technology, Guwahati   *Nov 2021 – Present*
BTech Computer Science & Engineering   *GPA 8.48*

Sunbeam School, Deoria   *2018 – 2020*
Senior Secondary - PCM   *92.6 %*

Experience

Software Development Intern   *Guwahati*
SERB - Security & Privacy Preserved Automatic Health Emergency Detection & MSP   *Nov 2023 – May 2024*
Selection in IoT Based Smart Healthcare System

- Developed the Emergency Detection algorithm, which facilitates the processing of users' sensory readings in encoded form and processed them using MDRQ trees.
- Spearheaded the implementation of the MSP Selection algorithm, to securely locate nearest service to user, while protecting the privacy of both the entities using encryption.

Research Intern   *Guwahati*
IIIT Guwahati - Land Cover Classification Leveraging multi-temporal satellite images   *Jan 2024 – Present*

- Implemented IEEE research works for geological monitoring using advanced deep learning models to extract spacial & temporal features (CNN, ResNet, Conv-LSTM) & achieved an accuracy score of 86% .
- Proposed and initiated the implementation of a GAN classifier; anticipated to enhance image recognition accuracy by upto 10%

Projects

FlipSmart   *Real Time Conversational Chatbot*   ⬡ ⬈   *Aug 2024*

- Steered the development of the generative AI chat LLM, improving responses up to 80% by contextual learning.
- Engineered the software's recommendation engine, using session storage & cookies, boosting product visibility.
- Tools Used: Gemini API, Azure Speech-Text, Google Text-Speech, Docker, Node, React, Python

Big Alley Homes   *Real Estate Database Management*   ⬡ ⬈   *Mar - Apr 2023*

- Developed a robust database architecture fully aligned with ER Diagram specifications.
- Designed & implemented the web interface for Estate-Office & Agents' dashboard with hassle-free controls.
- Tools Used: MySQL, Flask, HTML, Bootstrap, JavaScript

Technologies

Languages: C/C++, Python, Java, JavaScript, SQL, HTML

Frameworks: Tensorflow, Scikit-Learn, Node, Express, React, Flask, Bootstrap

Technologies: Git, Docker, AWS, MongoDB, Conda

Course Work

Data Structures & Algorithms, Machine Learning & Artificial Intelligence, Natural Language Processing, Data Analytics, Operating Systems, Computer Networks, Cyber Security, Database Management Systems, Cloud Computing, Object Oriented Programming (Java), Compilers, Linear Algebra

Achievements & Responsibilities

- Placement Coordinator at Training & Placement Cell IIIT Guwahati   2024
- Lead - Marketing & Creatives Google Developer Society IIITG   2023-24
- Head of Sponsorship - Annual Techno-Management Fest Entropy 2.0 IIIT Guwahati   2023
- Core Member Web Development Team - Yuvaan 2.0 Cultural Fest   2024
- Solved 650+ DSA questions across online coding platforms   Leetcode ⬈ GFG ⬈
- Semi-Finalist at Technoverse Hackathon (Fund Trail Analysis)   2024