PRAJWAL AMTE

Final Year Undergraduate Student

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GitHub | Linkedin

EDUCATION

The National Institute of Engineering, Mysuru — Mysuru
Information Science Bachelor's of Engineering — Dec 2022 - June 2025

Global PU College — Hubli
Science Higher secondary — May 2020 - April 2022

Chinmaya Vidhyalaya, CBSE — Hubli
Degree in Primary and Secondary — June 2012 - April 2022

EXPERIENCE

Fidelity Investments | Summer Intern — Bengaluru, India | June 2024 - August 2024

Contributed to writing test cases using JUnit and Mockito and assisted in developing a serverless application with AWS Lambda and Java. Gained experience in software testing and cloud computing.

IEEE Mysore Subsection | Student Representative — Mysuru, India | January 2024 - January 2025

Facilitated collaboration and membership growth among student branches through meetups and initiatives. Revived dormant branches and organized subsection-wide events, fostering communication and leadership.

NIE IEEE Student Branch | Treasurer — Mysuru, India | November 2023 - December 2024

Managed finances and supported 90+ events, enhancing operations and member engagement. Strengthened branch visibility and streamlined resource allocation effectively.

SKILLS

Programming Languages:	Java, Python, C/C++, Rust, Javascript
Libraries/Frameworks:	Spring Boot, TensorFlow, React, AngularJS, JUnit, Mockito, LangChain
Tools / Platforms:	Git, VS Code, Docker, Streamlit
Databases:	MySQL, MongoDB, PostgreSQL

PROJECTS / OPEN-SOURCE

Federated ECG Anomaly Detection Using CNNs — *PyTorch, Python, NumPy, Pandas, Matplotlib*

Developed a privacy-preserving anomaly detection system for ECG signals using a Federated Learning (FL) framework. The project involved training Convolutional Neural Networks (CNNs) across decentralized hospital datasets to classify normal and abnormal heart signals. Leveraged the MIT-BIH Arrhythmia Dataset, achieving high classification accuracy while ensuring data privacy.

TaskHive: Smart Task Management System — *AngularJS, Spring Boot, Docker, Kubernetes*

Developed a web-based task management platform with role-based access control for Admins, Managers, and Users. The system includes secure user authentication, real-time task notifications, an analytics dashboard, and dynamic task assignment. Deployed the application using Docker and Kubernetes for scalability and hosted it on a cloud environment.

News Analyser — *LLM, LangChain, Streamlit, FAISS*

This project is a Streamlit-based web app that processes news articles from user-provided URLs. Using LangChain for query handling and FAISS for similarity search in a vector database, it extracts key information and answers user queries based on relevant sources. The app employs text processing and semantic search for efficient, contextually accurate responses.