

# PRANAV MALVI

pranavmalvi2003@gmail.com | +91-9168887832 | [LinkedIn](#) | [GitHub](#)

## Professional Summary

Energetic and ambitious student pursuing a B.Tech degree with a passion for Information Technology. Demonstrated proficiency in Java, C++ and Python languages. Proactive learner with a keen ability to adapt to new challenges. Excited to apply academic knowledge in a practical setting and contribute positively. Interested and actively working in the AI, Machine Learning, and Generative AI domains.

## Technical Skills

Python | Java | C++ | JavaScript | Flask | ReactJS | REST APIs | TensorFlow | Scikit-Learn | OpenCV | Mediapipe | Pandas | NumPy | Matplotlib | Seaborn | OpenAI GPT-4 | Microsoft AutoGen | Azure OpenAI Services | LangChain | KeyBERT | Prompt Engineering | Fine-tuning Models | Speech Recognition | Computer Vision | Web Scraping | Data Summarization | Multi-Agent Systems | Predictive Analytics | Time Series Forecasting | Data Visualization | Azure | Vercel | Railway | Docker | Git | GitHub | Postman

## Experience

**Jnanamarga Technologies (Internship):** Worked on GenAI, Python backend development, and API creation (Jul 2024 – March 2025).  
**Eduplus Campus (Internship):** Developed a complete Exam Proctoring Software including frontend, backend, and security (July 2024 – Feb 2024).

## Projects

### PESTEL Analysis (Sponsored Ongoing Project by CREATUM Company, Germany)

Currently working on an industry-sponsored project: AI-Driven PESTEL Tool, designed to analyze Political, Economic, Social, Technological, Environmental, and Legal factors using AI agents. The tool leverages multi-agent systems, natural language processing, and machine learning to provide actionable insights for strategic decision-making.

**Tech Stack:** Python, Flask, NLP Libraries, Machine Learning Frameworks, Microsoft AutoGen, Azure OpenAI Services.

**Responsibilities:** Contributing to the development of PESTEL-specific agents, backend infrastructure, and model implementation.

### AI-based Exam Proctoring System (Internship Project by EduPlus Company)

Collaborated with EduPlus to develop an AI-based proctoring system for online exams, detecting suspicious activities such as prohibited speech, facial movements, and screen sharing. Integrated machine learning models for face detection, speech recognition.

**Tech Stack:** Python, Flask, Mediapipe, KeyBERT, TensorFlow, OpenCV, SpeechRecognition

**Responsibilities:** Worked on audio feature development and Backend Integration.

### Energy Prediction and Optimization Dashboard

Developed the backend of a web-based dashboard for visualizing historical energy consumption and predicting future usage. Built and integrated ML models for predictive analytics, utilizing Flask APIs and real-time weather data. Analyzed energy data to generate personalized energy-saving recommendations. Also implemented a GPT-4-powered chatbot for user interaction.

**Tech Stack:** ReactJS, Flask, Python, Chart.js, OpenAI GPT-4, REST APIs.

**Responsibilities:** Backend Development, ML model creation, Data Analysis.

### Di-Tect: Machine Learning Project for Disease Detection (ADCET Hackathon Top 5 Selected Project)

Developed a Web application for Tuberculosis detection using machine learning models. The app allows users to upload chest X-rays, choose models, and view predictions with probability scores. Includes visualization of model performance metrics.

**Tech Stack:** ReactJS, Python, TensorFlow, Flask, Chart.js, OpenCV.

**Responsibilities:** Frontend development and model contribution.

**Outcome:** Project paper presented at ICHISS 2024 and forthcoming for publication.

## Extracurricular Achievements

Vice President, GFG VIIT

Published Research Paper in IEEE on Topic: “[Decentralized Influencer Marketing and Sponsorships](#)”.

Working on 3 Industry Projects

IT Department Head in Perception, Gandharva 2025

## Education

B.Tech: Vishwakarma Institute Of Information Technology, Pune | IT Engineering | CGPA: **8.52**

HSC: Matoshri Junior College, Nashik | Science | **95.34%**

SSC: Kashinath Palod Public School | **93.2%**

## Soft Skills

Leadership | Problem Solving | Analytical Thinking | Communication | Collaboration | Attention to Detail | Time Management | Critical Thinking | Strategic Planning | Adaptability.