

Viresh Mallikarjun Tarapur

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PROFILE

Python Developer with hands-on experience in building backend logic, data processing systems, and machine learning-based applications. Strong foundation in Python, databases, and applied problem-solving, with experience developing secure, intelligent, and real-world software solutions.

EDUCATION

2022 – 2026 B.Tech (ECE), Presidency University, Bengaluru
2020 – 2022 Class XII, V.B. Darbar PU College, Bijapur
2019 – 2020 Class X, Sri Veer Bharati Vidya Kendra, Indi

TECHNICAL SKILLS

Programming Languages: Python, Assembly
Frameworks: Flask
Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, OpenCV, Matplotlib
Databases: MySQL
Methodologies: Object-Oriented Programming (OOP), MVC Design Pattern
Tools: VS Code, Jupyter Notebook, Google Colab, Firebase
Soft Skills: Problem Solving, Team Collaboration, Time Management

PROJECTS

File Encryption and Secure Storage System – Developed a Python-based system to encrypt and decrypt files using cryptographic techniques, ensuring secure data storage, confidentiality, and protection against unauthorized access.

Student Buddy / Peer Assistant – Designed a Chrome extension that assists students with contextual hints and step-by-step guidance without revealing direct answers. Integrated large language models such as Gemini to support personalized learning and problem-solving.

Elderly Person Monitoring System – Built a machine learning-based monitoring solution to track elderly health and activity data using sensor inputs. Implemented ML models for abnormal condition detection and alert generation to enable timely assistance and improved safety.

HACKATHONS & TECHNICAL EVENTS

SMVIT Hackathon (2025) – Developed *Waste to Wonder AI*, a Python-based machine learning solution for analyzing waste data and generating reusable product ideas. Collaborated in a team environment to design, implement, and present an AI-driven solution under time constraints.

Innovex 3.0 (2025) – Built a Smart Agriculture solution combining Python processing, IoT data handling, and machine learning for crop health monitoring. Focused on real-time data analysis and practical deployment for agriculture-focused problem statements.

ACHIEVEMENTS

Top 3 Project – Smart Road Divider (2022–2023) – Arduino-based automation system designed to optimize traffic flow and improve road safety.

Top 4 Project – Waste Classification System (2023–2024) – Raspberry Pi project for real-time waste classification using sensor integration and Python-based processing.

Top 10 – SMVIT Hackathon – Recognized for innovation and effective implementation of a Python-based AI solution.