Viresh Mallikarjun Tarapur

Portfolio | Viresh Tarapur | Viresh Tarapur | tarapurviresh@gmail.com | +91 6362272321

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, SQL, Assembly

Frameworks: Flask, APIs

Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, OpenCV, Matplotlib

Databases: MySQL

Tools & Platforms: VS Code, Jupyter Notebook, Google Colab, Firebase, Cursor, Antigravity

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.

LogicPro – AI-powered Chrome extension that captures screenshots, analyzes coding problems, and provides step-by-step logic explanations before optionally generating code.

Smart Agriculture System – Developed an IoT and machine-learning–based solution for monitoring crop health, soil moisture, temperature, and environmental conditions with real-time alerts and intelligent insights.

Hackathons & Technical Events

SMVIT Hackathon – Developed *Waste to Wonder AI*, a Python-based machine learning solution for analyzing waste data and generating reusable product ideas.

Innovex 3.0 – Elderly Person Monitoring System: Built a machine-learning–based monitoring solution to

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(2025-2026) – Recognized for innovation and effective implementation of a Python-based AI solution.

Certifications

Python 101 for Data Science – IBM

Introduction to Machine Learning – Microsoft

Train and Evaluate Deep Learning Models – Microsoft