

Prasannaa Vijayakumar

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SUMMARY

Computer Science undergraduate with strong foundations in Software Engineering, Machine Learning, and Full-Stack Development. Passionate about solving real-world problems through scalable software and continuously learning emerging technologies.

EDUCATION

Amrita Vishwa Vidyapeetham <i>B.Tech in Computer Science and Engineering</i> • CGPA: 8.06 / 10.00	2024 – 2028 Chennai, Tamil Nadu
Sri Chaitanya Techno School, Erode <i>Higher Secondary (Class XII) 87.4%</i>	2024 Tamil Nadu
Avvai K.S.R. Matriculation Higher Secondary School, Tiruchengode <i>Secondary School (Class X) 93.0%</i>	2022 Tamil Nadu

PROJECTS

Tamil Nadu Artificial Intelligence (TNAI) Platform <i>Python FastAPI Streamlit Machine Learning IoT</i> • Developing an end-to-end AI-powered platform integrating Machine Learning, IoT, and real-time analytics for intelligent decision support. • Designed a modular architecture with FastAPI backend, interactive Streamlit dashboard, SQLite database, MQTT communication, and scalable deployment pipeline.	2026 – Present Flagship Project
AI-Based Plant Disease Prediction System <i>Python PyTorch Computer Vision Deep Learning</i> • Developing a multimodal deep learning framework for early plant disease prediction using RGB images, environmental data, and IoT sensor information. • Building an end-to-end machine learning pipeline covering dataset engineering, preprocessing, model training, evaluation, and explainable AI for intelligent agricultural monitoring.	2026 – Present Research Project
Map My Destination <i>Python Graph Algorithms BFS</i> • Developed a graph-based travel planning platform using Breadth-First Search (BFS) for route optimization. • Built an interactive interface to visualize optimized travel paths using graph algorithms.	2026 Live Project

SKILLS

Programming Languages: Python, C, C++, Java, SQL, JavaScript

Web Technologies: HTML, CSS

Libraries & Frameworks: NumPy, Pandas, Matplotlib, Scikit-learn, FastAPI, Streamlit

Databases: MySQL, SQLite

Developer Tools: Git, GitHub, VS Code, Jupyter Notebook, Cisco Packet Tracer, Power BI, Tableau

Core Concepts: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks, Machine Learning, Computer Vision, IoT