Prashanth V

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Education

B.E. in Artificial Intelligence & Machine Learning **Sep 2022 – Jun 2026**
BMS Institute of Technology & Management (BMSIT&M), Bengaluru **CGPA: 8.89**

Work Experience

Intern – Aviratha Digital Labs May 2025 – Dec 2025
BMSIT in collaboration with JERBI Foundation

- Researching hydroponic farming methods and VR pedagogy for training module development.
- Designing and developing VR-based hydroponic farming training modules.
- Working on integrating IoT-based precision agriculture techniques for real-time monitoring and automation.

Machine Learning Intern – SkillCraft Technology Sep 2024

- Contributed to machine learning projects using Python and TensorFlow.
- Preprocessed and analyzed large datasets for model training and evaluation.
- Assisted in deploying models for real-world use cases.
- Awarded a Certificate of Completion for performance during the internship.

Projects

VitaTrack – Fitness and Wellness Web Application (Node.js, Express, Docker)

- Built a web application with BMI calculator, calorie tracker, workout plans, and recipe suggestions.
- Integrated YouTube Data API for exercise and nutrition content.
- Added authentication and responsive UI for consistent use across devices.
- Deployed with Docker and Node.js/Express for easier setup and scalability.

Other tech: HTML, CSS, JavaScript, Bootstrap

Smart Refrigerator Inventory Management System (IoT, Raspberry Pi 4B, Firebase)

- Developed an IoT system to track fridge stock and detect spoilage.
- Used HX711 load cells, ESP32-CAM, and Raspberry Pi 4B for real-time monitoring.
- Built a web/mobile interface with spoilage alerts for better accessibility.

Other tech: React Native, ESP32, HX711 Load Cells, Camera Modules

Smart Drainage Monitoring System (IoT, Arduino, GSM Module)

- Designed a monitoring system using MQ135, water level, and tilt sensors to detect gases and drainage blockages.
- Implemented GSM alerts for quick response to overflow situations.
- Tested in multiple pilot sites to help reduce flood risks through early detection.

Other tech: C++, Sensors (MQ135, Water Level, Tilt)

Skills

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

Web Development: HTML, CSS, Bootstrap, React Native, Node.js, Express

IoT & Hardware: Arduino, Raspberry Pi, ESP32, Sensors (MQ135, Water Level, Tilt), HX711

Tools & Platforms: Docker, Git, Firebase, MATLAB, Google Colab, TensorFlow

Certifications

Artificial Intelligence with Python — Infosys springboard
Julia — Infosys springboard
Machine Learning — MatLab

Last updated: September 19, 2025