

Prabu M

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Professional Summary

Passionate B.Tech student in Artificial Intelligence and Data Science with strong programming skills and growing expertise in data-driven solutions. Skilled in Python, Machine Learning, Deep Learning, and MySQL, with hands-on experience in data science projects and Grafana-based visualizations. Demonstrated leadership and discipline through NCC ('B' Certificate). Looking to bring innovation, curiosity, and a proactive mindset to an impactful job opportunity.

Technical Skills

Languages: Python and Java (Proficient), SQL (Intermediate), HTML & CSS (Intermediate)

Tools & Platforms: Git, GitHub, Google Colab, VS Code, Grafana, MySQL, MQTT

ML/AI: Machine Learning, Deep Learning (TensorFlow, PyTorch), Generative AI (LLMs, Diffusion Models), Data Preprocessing & Evaluation

Concepts: Data Structures & Algorithms, Computer Vision, AI-powered IoT, Data Visualization

Projects

Solar-Power Prediction System

2024

- Forecasts solar energy generation using historical weather data, ML models, and real-time environmental inputs.
- Integrated MySQL for data storage and Grafana for real-time visualization and alerts.

AI Data Cleaner & Visualizer

2025

- Built a Streamlit app powered by a local LLM (Ollama) for summarizing, cleaning, and visualizing CSV data.
- Automated preprocessing: missing value handling, outlier detection, encoding, scaling, and visualization.

YOLOv8 Vehicle Speed Detection System

2025

- Developed a real-time vehicle speed detection system using YOLOv8 and Norfair tracking with OpenCV.
- Implemented line-crossing logic and calibration to calculate vehicle speed accurately from video streams.

Internships & Experience

Augmented Reality/Virtual Reality (AR/VR) Internship

10 Days, Offline

- Hands-on with AR/VR technologies and immersive applications.

Svasti – One-Year Membership Program

2024 – 2025

- Worked on AI-powered IoT systems, YOLOv8 object detection, vehicle speed measurement, and chatbot projects.

Python Programming & Data Science Courses

30 Days Each, Online

- Learned practical applications of Python scripting, automation, and data analysis.
- Covered ML algorithms, preprocessing, visualization, and real-world applications.

Education

B.Tech in Artificial Intelligence and Data Science

Velalar College of Engineering and Technology (VCET), Thindal, Tamil Nadu

2022 – 2026

Current CGPA: 7.59

Government Model Higher Secondary School (GBHSS), Kavindapadi

SSLC: 73% (May 2020)

HSC: 76% (May 2022)

Leadership & Extracurricular Activities

NCC Cadet ('B' Certificate)

2023 – 2026

- 3 years of training with focus on leadership, teamwork, discipline, and resilience.
- Attended two 10-day NCC camps, enhancing coordination and responsibility.

Symposium Coordinator (Celestix'24)

2023

- First-ever coordinator for AI & DS symposium, managing logistics and event execution.

NSS Volunteer

2023

- Participated in a 5-day NSS camp, contributing to social service and community development.