Prabu M

msprabu12345@gmail.com | +91 91590 82856 | prabu.me | github.com/prabums07

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

- **Programming Languages:**
  - Python (Proficient), Java (Intermediate) ,SQL
- **Tools & Platforms:** Git, GitHub, Google Colab, VS Code, Grafana, MySQL and MQTT
- **Machine Learning & AI:** Machine Learning, Deep Learning (TensorFlow, PyTorch), Generative AI (LLMs, Diffusion Models) and Data Preprocessing & Evaluation
- **Core Concepts:** Data Structures & Algorithms, OOPS, Computer Vision and AI-powered IoT

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.