

# Prabu M

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## Professional Summary

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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

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- **Programming Languages:**
  - Python (Proficient), Java (Intermediate) SQL, HTML and CSS
- **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

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- 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

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- 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

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- B.Tech in Artificial Intelligence and Data Science** 2022 – 2026
- Velalar College of Engineering and Technology (VCET), Thindal, Tamil Nadu  
Current CGPA: 7.59
- Government Model Higher Secondary School (GBHSS), Kavindapadi**
- SSLC: 73% (May 2020)  
HSC: 76% (May 2022)

## Leadership & Extracurricular Activities

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- 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.