# PRABU M

**+91 9159082856 | msprabu12345@gmail.com | prabu.me (Portfolio)**

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.

## INTERNSHIPS

- Augmented Reality/Virtual Reality (AR/VR) Internship: Completed a 10-day offline internship focused on AR/VR technologies.
- Svasti (One-Year Membership Program) : Worked on AI-powered IoT data systems, YOLOv8-based object detection, vehicle speed measurement, and chatbot development projects.
- Python Programming Course: Completed a 30-day online course in Python programming, focusing on practical applications.
- Data Science Course: Completed a 30-day online course in Data Science, covering essential tools and techniques.

## PROJECTS

- SOLAR-POWER-PREDICTION : Involves forecasting solar energy generation using historical weather data, machine learning models, and real-time environmental conditions. Includes MySQL integration to store predictions and Grafana visualization for monitoring and displaying real-time data and alerts.
- OMNIX AI Assistant: A fully offline, voice-activated AI assistant built for real-time assistance, incorporating speech recognition, NLP, computer vision, and deep learning. OMNIX aims to provide human-like interactions with advanced generative AI features.
- AI Study Planner: Developed using LLM DeepSeek and YouTube API to provide personalized study plans, leveraging natural language processing to recommend educational content based on user preferences.

## SKILLS

- Programming Languages:
  - Python: Proficient in developing scripts and projects. C, Java : Basic understanding of programming concepts. SQL Language: Comfortable with writing queries, joins, and basic data manipulation.
- Tools & Platforms:
  - Git & GitHub: Version control and collaborative development.
  - Google Colab, VS Code, Jupyter Notebook : Notebook-based workflows, Code development, debugging, and experimentation.
  - Grafana: Real-time data visualization and monitoring dashboards.
  - MySQL : Database design, query execution, and management.
  - MQTT : Real-time messaging for IoT applications.
- Machine Learning & Artificial Intelligence:
  - ML & AI: Experience with real-world algorithms and intelligent systems.
  - Deep Learning: Hands-on with neural networks (TensorFlow, PyTorch).
  - Generative AI: Familiar with LLMs (DeepSeek), diffusion models, and AI content generation.
  - Data Preprocessing & Evaluation: Skilled in cleaning, transforming data, and model performance analysis.
- Data Structures & Algorithms (DSA): Understanding of fundamental data structures and algorithms for problem-solving and optimization.

## EDUCATION

- Velalar College of Engineering and Technology (VCET), Thindal, Tamil Nadu
  - B.Tech in Artificial Intelligence and Data Science (Ongoing)
  - Duration: 2022 – 2026
  - Current CGPA: 7.6
- Government Boys Higher Secondary School (GBHSS), Kavindapadi, Tamil Nadu
  - SSLC: 72% (May 2020)
  - HSC: 76% (May 2022)

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

- NCC Cadet: 'B' Certificate holder with 2 years of real-time experience in leadership, teamwork, discipline, critical thinking, and time management through rigorous National Cadet Corps training. Attended a 10-day NCC camp, enhancing resilience, responsibility, and coordination under challenging conditions.
- Symposium Coordinator (Celestix'24): First-ever coordinator for the AI & DS department's inaugural symposium, demonstrating organizational, leadership, and event management skills.
- Project Expo Participation: Represented innovative tech solutions like *OX CyberShield* and *FocusFlow* in college-level project expos, showcasing strong communication and demo skills.
- NSS Volunteer: Participated in a 5-day NSS camp, contributing to social service initiatives and community development, while building a strong sense of civic responsibility and teamwork.