

PRABU M

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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.

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.
- AI Data Cleaner & Visualizer : A Streamlit app that uses a local LLM (via Ollama) to automatically summarize, clean, and visualize CSV data. It handles missing values, outliers, encoding, scaling, and generates Python code for preprocessing and plotting. The app ensures full data privacy with offline LLM execution and shows original vs. cleaned data side-by-side.
- 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 Model Higher Secondary School (GBHSS), Kavindapadi, Tamil Nadu
 - SSLC: 73% (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.