VENKATESH BABU | Python Developer

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Profile

Detail-oriented **Python Developer** and **MCA Candidate** with practical experience in **Artificial Intelligence**, **Data Structures**, and **Web Development**. Proficient in building data-driven applications using **Django** and implementing **Machine Learning** algorithms like KNN. Eager to contribute strong problem-solving skills and technical expertise to a professional development team.

Technical Skills

- **Languages & Core:** Python (Core/Advanced), SQL, OOP Concepts, Data Structures
- **Web Development:** Django, Flask, REST APIs, HTML, CSS, JavaScript, MySQL, SQLite
- **Data Science & AI:** Machine Learning (Scikit-Learn), Pandas, NumPy, Data Analysis
- **Tools & Platforms:** Git, GitHub, VS Code, Postman, Linux, Windows

Projects

Real-Time Drowsiness Detection System   GitHub Link
Python, OpenCV, MediaPipe
- Developed a real-time safety system to prevent accidents caused by driver fatigue using facial landmark detection.
- Leveraged MediaPipe to map 468 facial points and track eye movements with high precision.
- Implemented Euclidean Distance algorithms to calculate Eye Aspect Ratio (EAR) and triggered PySound alerts when closure exceeds 30 frames.

Smart Weather Forecasting System   GitHub Link
Python, Scikit-Learn, Pandas
- Built a predictive model using the **K-Nearest Neighbors (KNN)** algorithm to forecast local weather conditions.
- Processed historical atmospheric data using Pandas to create a structured dataset for training.
- Visualized prediction results and accuracy metrics, demonstrating practical application of supervised learning.

Dental Clinic Management System   GitHub Link
Django, MySQL, HTML/CSS
- Designed a full-stack web application to manage patient records, appointments, and doctor schedules.
- Utilized Django for backend logic and MySQL for secure data storage and retrieval.
- Created a user-friendly frontend interface, significantly reducing manual administrative work for clinic staff.

Education

Madurai Kamaraj University   Madurai
Master of Computer Applications (MCA)   2024–2026
Pursuing

Sourashtra College   Madurai
B.Sc. Information Technology   2021–2024
Bachelor of Science

Languages

- **English:** Intermediate
- **Tamil:** Native Speaker