P.v.DINESH

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CARRER OBJECTIVE

I am passionate about exploring new ideas and building applications that can make a real difference in people's lives. With skills in Python, SQL, Power BI, and Machine Learning, I strive to combine innovation with collaboration to create meaningful, data-driven solutions. I see myself as a dedicated and detail-oriented learner who is eager to contribute, grow, and work together with others to bring helpful ideas into reality.

SKILLS

- ***Programming Skills:*** Python, Numpy, Pandas, HTML, CSS, Java.
- ***Database & Tools:*** MySQL, Git, GitHub, MS-Office.
- ***Visualization Tool:*** *Power BI, Matplotlib.*
- ***Soft Skills:*** Communication, Problem Solving, Active Listening, Time Management, Team Collaborations.
- ***Languages:*** English, Telugu (Native), Hindi

PROJECTS

- ***Traffic Anomaly Detection in Smart Cities:***
  This project aims to develop a sophisticated speed camera system using computer vision techniques with OpenCV in Python.
  Instead of relying on traditional sensors, the system will analyze video footage to detect and track vehicles.
  Team project earned Honorable Mention.
- ***How honeybees are effecting due to climate change:***
  Developed a Convolutional Neural Network (CNN) model for honey bee health assessment, saving it as a .h5 file.
  Integrated the model into a Flask web application, enabling users to upload honey bee images for analysis.
  Created an HTML interface allowing seamless image submission and displaying results indicating whether the bee is infected or healthy.
  Designed and deployed a deep learning model with 90% accuracy into a Flask-based web application, delivering a practical solution for honeybee health monitoring
- **AI Sports Chatbot:**
  Developed a personalized sports assistant website using Streamlit**.**
  Integrated with Groq API to enable intelligent Q&A interactions.
  Designed multiple sports categories, allowing users to select their area of interest.

ACHIVEMENTS

view

- Published a research paper in **IEEE Conference** on an *AI-Powered Image-Based Missing Person Identification System*.
- Proposed a CNN-based deep learning model with PostgreSQL backend and Docker deployment, achieving high accuracy, precision, and recall in real-time facial recognition. Designed a scalable, automated solution with real-time alerts (email & push notifications), significantly improving search efficiency over traditional methods while ensuring ethical data privacy.

EDUCATION

- ***Bachelor of Technology in Computer Science and Engineering (AIML)***
  Kalasalingam University, Srivilliputtur, Tamil Nadu | 2021- 2025 | CGPA: 7.3
- ***MPC, BIEAP, Class XII***
  Sri Chaitanya Junior College, Vijayawada, Andhra Pradesh | 2019- 2021 | Percentage: 76.4%
- ***SSC, BSEAP, Class X***
  Sri Chaitanya school, Vijayawada, Andhra Pradesh | 2018- 2019 | CGPA: 9.5

Certifications

- *AIML ISRO Certificate Hands-on ML Applications* view
- *SQL- SQL queries and data analysis* view
- *ORACEL AI FOUNDATION CERTIFICATE view*