VEERAPANDIAN V R

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PROFILE SUMMARY

Final-year B.Tech CSE (Data Science) student with hands-on experience in building backend and full-stack applications using Python and Java. Experienced in designing modular, scalable components, working with databases, REST APIs, and real-time systems. Strong focus on clean code, performance, and reliability across the software development lifecycle.

EDUCATION

Kalasalingam Academy of Research and Education, Krishnankoil **2022 – 2026**
Bachelor of Technology in Computer Science and Engineering – Data Science (**CGPA** – 8.08/10.0) [*Virudhunagar, T.N.]*

Edustar International School **2019 – 2020**
Class - X (**Percentage**: 88.2%) [*Kovilpatti, T N.]*

Edustar International School **2020 – 2022**
Class - XII (**Percentage**: 72.5%) [*Kovilpatti, T N.]*

SKILLS AND INTERESTS

- **Technical Skills:** Python, SQL, MySQL, PowerBI & Microsoft Excel
- **Tools:** Git, GitHub
- **Frontend (basic):** React.js, HTML, CSS
- **Backend:** Spring Boot, REST APIs
- **Database**: MySQL, SQLite
- **Soft Skills**: Peer Learning, Quick Learning Ability, Inter Personal communication, Team Collaboration, Time Management
- **Languages**: Tamil (Native), English (Fluent), Hindi (Moderate)

PROJECTS

Taxi Booking System github

- Designed and developed a Python-based taxi booking application with user authentication, dynamic fare calculation, and persistent data storage using SQLite.
- Implemented input validation, receipt generation, and modular service logic to ensure data integrity and maintainability.
- Optimized application flow for responsive user interactions and efficient database operations.

Bike Booking System github

- Developed a full-stack bike rental system using Spring Boot and React, implementing RESTful APIs for user registration, authentication, and real-time bike booking.
- Designed backend services with clear separation of concerns and optimized database queries for consistent performance under concurrent requests.
- Built a responsive frontend to seamlessly integrate with backend APIs and improve user experience.

Thermal Facial Recognition and Alert System github

- Built a real-time thermal human detection and facial recognition system using YOLOv8 and OpenCV.
- Optimized frame processing and brightness handling to reduce latency in real-time video streaming.
- Implemented an automated alert mechanism for unknown individuals using a known-person database, ensuring reliable continuous monitoring.

ACHIEVEMENTS

- **SECOND RUNNER UP** - IBM ICE DAY POSTER PRESENTATION ,2023
- **FINALIST – CODE SCAVENGER 2025,12-Hour Hackathon**
  Inter-college Technical Event | Kalasalingam Academy of Research and Education.
  Secure fourth place for full fledged machine learning model which helps in tackling the codes and finding the treasure.

CERTIFICATIONS

- **Python Programming:** Geekforgeeks
  Basic python, OOPs in python, Introduction to libraries
- **Design and Analysis of Algorithms (DAA):** CodeChef
  Focused on algorithm design strategies like Divide & Conquer, Greedy, DP, and their time complexities
- **Complete AI and Machine Learning,Data Science Bootcamp**: Udemy
  Python programming for Data Science, machine learning, statistics and probability
- **SQL for Beginners**: Geekforgeeks
  Relational database concepts, queries, joins, subqueries, and database operations.

PUBLICATIONS

Published a research work titled "Artificial Intelligence-Driven Visualization for Enhanced Waste Management and Air Pollution Control in Smart Cities." and successfully presented at the ICACRS Conference and is now indexed in IEEE Xplore and Google Scholar.

- It explores how AI-driven visualization can revolutionize waste management and air pollution control in smart cities, contributing to a more sustainable and efficient urban environment.