MAHARAJ P S

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A results-driven and enthusiastic B.Tech candidate specializing in Artificial Intelligence and Data Science, with practical experience in software development, data visualization, and machine learning. Proven ability to work collaboratively on innovative projects and deliver effective, data-driven solutions.

EDUCATION

- **SSLC (2020):** Scored 93.4% at KRPMHSS, Sankari West.
- **HSC (2022):** Scored 87.33% at KRPMHSS, Sankari West.
- Pursuing B.Tech (AI&DS) in Knowledge Institute of Technology with CGPA - 8.2

TECHNICAL SKILLS

- **Programming Languages** : Python, Java, C, SQL
- **Tools & Frameworks :** OpenCV, MTCNN, Roboflow, YOLO, Streamlit, servelet, JDBC, PowerBI, Matplotlib
- **Core Concepts :** OOPs, Computer Networks, Artificial intelligence, Machine Learning,.

CERTIFICATIONS

- **NPTEL :** Python, Java, Applied Artificial Intelligence, AI in Marketing

INTERNSHIP

Full stack Data Scientist

- Developed a smart face attendance system using Python and OpenCV with facial recognition modules, a Streamlit-based user interface, real-time attendance tracking via Google Sheets API, and deployment on AWS EC2 for remote access and testing.

Jul 2024 – Mar 2025
PunchBiz

Software Trainee

- Worked on computer vision and NLP projects using AI/ML tools and frameworks.
- Implemented YOLO-based cattle detection and NLP tasks using Hugging Face models.
- Created interactive dashboards with Power BI for data visualization.

Jun 2024 - Aug 2024
INDIAN SERVERS

PROJECTS

Image Filter

- Converts live images into pencil sketch using OpenCV library in Python.

Face Recognition Attendance System

- Detect and recognize faces in a classroom and mark attendance accordingly.
- It uses MTCNN to detect faces and then uses face encodings to recognize faces in the classroom.

Predicting In-Hospital Mortality (Healthcare Sector)

- Developed a Streamlit-based web application that predicts the risk of in-hospital mortality in heart failure patients using a Random Forest Classifier trained on clinical data.

Number Plate Detection System

- Built a real-time number plate detection system using YOLOv5, OpenCV, and Google Cloud Vision API with a Streamlit interface for video input and OCR-based plate logging.

Student Database Management System (JAVA)

- Developed a GUI-based application to manage student records.
- Features include adding, viewing, updating, deleting, and searching student data.
- Used html & css for front-end and Oracle for backend storage.
- Ensured data validation and provided a user-friendly interface for academic administrators.

AI - Based Resume Screening System

- Developed an AI-powered Resume Matching System using BM25 keyword scoring, FAISS semantic similarity, and Gemini LLM insights, achieving high-accuracy candidate matching and interactive analytics. Built within **24 hours** and awarded the **top prize** at the event.

LANGUAGES

- Tamil, English