AIZAH MARYAM

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SUMMARY

AI Engineer with strong foundations in machine learning, computer vision, and data analysis.Proficient in Python, SQL,OpenCV, and NLP libraries such as spaCy and NLTK.Experienced in developing real-time intelligent systems for traffic monitoring and safety applications.Skilled in deep learning–based object detection, model optimization, and deployment workflows.Hands-on experience in building AI-driven solutions including violation detection and ATS-optimized resume systems.Seeking to apply advanced AI techniques to solve real-world problems in computer vision and intelligent automation.

SKILLS

- python
- ml
- sql
- open cv

EDUCATION

1. M.Tech in Artificial Intelligence & Data Science,APJ Abdul Kalam Technological University, 2024–2026

2. B.Tech in Computer Science and Engineering,APJ Abdul Kalam Technological University, 2020–2024

3. Plus Two – Biology Science,Kerala State Board, 2019–2020

4. SSLC-Kerala State Board, 2018–2019

PROJECTS

AI-Based Multi-Violation Detection for Two-Wheeler Traffic

Developed a computer vision–based traffic monitoring system to automatically detect multiple violations involving two-wheelers. The system uses a YOLOv8 object detection model to identify riders, helmets, and vehicle motion patterns from real-time video streams. Rule-based logic is applied to detect helmet absence, multi-rider situations, wrong-side driving, and speed violations. The pipeline integrates OCR for number plate recognition, enabling automated violation logging and supporting intelligent traffic enforcement.

AI Resume Builder with ATS Optimization

Designed and implemented an AI-driven resume builder that generates ATS-friendly resumes based on user input and target job roles. The system uses NLP techniques for keyword extraction and semantic similarity scoring between resumes and job descriptions. It provides an automated ATS score along with actionable suggestions to improve relevance and keyword alignment. The application supports multiple templates and exports optimized resumes in both PDF and DOCX formats.

CERTIFICATIONS

1. Deep Learning Specialization-Coursera – DeepLearning.AI

2. Machine Learning with Python IBM (Coursera)

3. Python for Data Science and AI-IBM (Coursera)

4. NPTEL – Introduction to Machine Learning IIT Madras

5. NPTEL Online Certification

DECLARATION

I hereby declare that the above information is true and correct to the best of my knowledge and belief.I take full responsibility for the accuracy of the details provided in this resume