DURGARAM R

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Summary

Analytical and results-oriented final-year Artificial Intelligence student targeting a **AI Engineer** role. Passionate about building and deploying high-impact models with a methodical approach to problem-solving. Demonstrated experience in deep learning and computer vision projects from conception to deployment.

Experience

Machine Learning Intern 08/2024 – 09/2024

TRIOS TECHNOLOGIES PVT *Chennai, India*

• Developed a predictive maintenance model for industrial sensors, analyzing time-series data to forecast equipment failures with 92% accuracy, contributing to potential reductions in operational downtime.

Education

Karpaga vinayaga college of engineering and technology

Bachelor of Technology (B.Tech) - Artificial Intelligence and Data Science *2022 – Present*

GPA: 8.09/10.0

Projects

Auto Image Trainer Studio (Roboflow-like Platform) 3/2025

Technologies: Python, flask, PyTorch, OpenCV, Docker

• Developing a web application to automate the image annotation and model training pipeline, reducing the end-to-end workflow time for custom vision tasks by an estimated 40%.

• Engineered a user-friendly interface for seamless data upload, annotation, and one-click model training for both object detection and classification models.

Vehicle Monitoring System 11/2024

Technologies: Python, YOLOv8, DeepSORT, OpenCV

• Designed and built a real-time system to monitor and track vehicle movement, achieving an average tracking precision of 96% in diverse traffic scenarios.

• Optimized the processing pipeline to achieve a throughput of over 20 FPS, enabling effective real-time surveillance.

Face Recognition Attendance System Using Raspberry Pi 10/2023

Technologies: Python, OpenCV, face_recognition, SQLite

• Automated the attendance process by designing and deploying a system on a Raspberry Pi, completely eliminating 100% of manual logging efforts.

• Attained a 99.2% recognition accuracy across a test database of 50 individuals, ensuring reliable and secure record-keeping.

Skills

Programming & Databases: Python, MS SQL, MySQL, HTML, CSS

ML/DL Frameworks: Scikit-learn, TensorFlow, PyTorch, Keras

GenAI: LLMs, LangChain, RAG, Agents, Prompt Engineering

Libraries & Tools: Pandas, NumPy, Matplotlib, Seaborn, OpenCV, Hugging Face, Git, Docker

Certifications

• Complete Data science, Machine Learning, DL, NLP Bootcamp - Udemy

• Advanced Learning Algorithms - Coursera Deeplearning.AI