Ashwath L

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WORK EXPERIENCE

AI Engineer Intern – **Genorai**   *June 2025 – Present*

Junior Data Scientist – **Delta Software Solutions**   *Sep 2024 – Jan 2025*
- Designed and developed deep learning models for object detection, recognition and tracking tasks, achieving an accuracy improvement of 15-20% over the baseline models.
- Deployed real-time computer vision applications capable of processing 30+ fps, ensuring high performance and scalability.
- Collaborated with cross functional teams to deliver AI solutions aligned with business objectives which reduced manual effort by 40%

AI Engineer – **Envidox Solutions (Freelancing Start up)**   *Jan 2024 – Sep 2024*
- Developed a no-code chatbot builder (Envichat) enabling users to create and deploy chatbots on platforms like WhatsApp within minutes.
- Built ML pipelines and optimized computer vision models for Livetrack#4, a low-latency motion capture system ensuring smooth human movement tracking.

PROJECTS

Traffic Analysis System for Multi-Class Vehicle Classification and Movement Tracking
- Designed a traffic analytics solution capable of classifying vehicles into 13 distinct categories, scaling from the initial 4-class segmentation.
- Tracked Vehicle Movements to analyze patterns (right, left, Through, U turns) from all cardinal directions, covering 4 major directions and 8 sub directions.
- Achieving a real-time performance with a system capable of handling traffic data at rates exceeding 30 fps.
- Researched about the approaches to overcome analytical challenges in timelapse videos.

AI-Powered Article-Based Q&A System
- Developed a real-time question-answering system using Langchain, groq and Streamlit enabling accurate responses based on content from up to three articles.
- Implemented document parsing and embedding techniques to process and retrieve relevant information efficiently.
- Achieved a 90% accuracy in generating context-based answers, reducing user query resolution and increasing the engagement by 30 %.

EV Charging Demand Prediction and Optimization
- Developed a data-driven forecasting model to predict EV charging demand using time-series analysis and machine learning.
- Built an ETL pipeline for data cleaning, feature engineering, and real-time analytics to optimize charging station efficiency.
- Deployed a Streamlit-based ML model to enable real-time demand predictions, improving station utilization and grid load balancing.

EDUCATION

B.Tech in Artificial Intelligence and Data Science   CGPA: 8.24
KGiSL Institute of Technology, Coimbatore   Apr 2020 – Jun 2024

CERTIFICATIONS AND KEY SKILLS

Certifications:
- Advanced Data Analytics – Google – (Ongoing)
- Cloud Foundations – AWS Academy – JULY 2023
- IBM Machine learning – IBM – APR 2023

Tools: Roboflow • Data Analysis Tools (Power BI, Power Query, MS Excel) • Microsoft Office Suite
Technical Skills: Programming Languages (Python) • Database Management (MySQL, PostgreSQL) • Web Development (HTML, CSS) • Data Analysis and Visualization (Pandas, NumPy, data cleaning, statistical analysis, Matplotlib, Seaborn) • Machine Learning (Scikit-learn, Tensorflow, Keras, Mediapipe-pose, NLP, Langchain, Groq) • Docker • Data Science Pipelining • n8n • Agentic AI
Soft Skills: Communication • Leadership • Problem-Solving • Time Management • Adaptability • Teamwork • Resilience

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ACHIEVEMENTS
- SIH Internal Hackathon – Pre-finalists.
- Amazon ML Hackathon – 72 Hours – 70th Position
- Yugam 2023 – 48 Hour Hackathon