Amaan Mohamed Kalemullah

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Experience

Machine Learning Intern *Jul 2023 – Oct 2023*
NeuralHire, Wylie, TX
- Built and optimized a real-time face detection model (HaarCascade) for tracking off-screen movements, improving responsiveness in behavioral analysis and multimedia datasets.
- Integrated models into research pipelines and maintained 10+ production scripts for video/speech processing with OpenCV and Praat, ensuring scalability and reliability.

ReactJS Development Intern *Jun 2022 – Jul 2022*
VIT, Chennai, India
- Developed dynamic, reusable ReactJS components, including responsive tables with configurable rows/columns, and supported backend integration via APIs.
- Improved UI stability by refining features, testing, and bug fixes, while contributing in Agile workflows through code reviews and team discussions.

Education

Arizona State University, Tempe, AZ *Aug 2024 – May 2026*
MS Data Science, Analytics and Engineering
- **Coursework:** Statistics for Data Analysts, Data Processing at Scale, Data Mining, Statistical Machine Learning, Data Visualization, Data-Driven Decision Making **CGPA: 3.72/4.00**

Vellore Institute of Technology, Chennai, India *Aug 2020 – May 2024*
B.Tech Computer Science and Engineering
- **Coursework:** Design and Analysis of Algorithms, Deep Learning: Principles and Practices, Speech and Language Processing using Deep Learning, Discrete Mathematics and Graph Theory

Skills

Languages and Database: Python, Java, SQL, MongoDB, ReactJS, NodeJS
Data Analysis & Visualization: Tableau, R, Power BI, Matplotlib
Concepts: Machine Learning, NLP, Computer Vision, Deep Learning (CNN, RNN, Transformers), DevOps, MLOps, Data Analysis, Statistical Modeling, Model Evaluation Metrics
Soft Skills: Time Management, Research collaboration, Adaptability, Communication skills, Critical Thinking
Certifications: IBM Artificial Intelligence Analyst (May 2023)

Projects

Online Smart Search *Jun 2025 – Jul 2025*
Python, SerpAPI, HuggingFace, Semantic Kernel
- Built an AI-powered product search and summarization tool using SerpAPI, HuggingFace (DistilBART), and Semantic Kernel for live Google Search retrieval.
- Implemented modular Python functions for product filtering, summarization, and fallback handling to ensure robustness and reusability.

Retrieval-Augmented Chatbot *Jun 2025 – Jul 2025*
Python, Streamlit, FastAPI, Groq AI, LangChain
- Developed a RAG chatbot supporting document uploads (PDF, TXT, MD) and context-aware Q&A.
- Integrated ChromaDB vector search and LangChain-based processing for accurate real-time retrieval.

Recipe Sharing App *Jun 2025 – Jul 2025*
MongoDB, Express.js, React, Node.js
- Developed a full-stack MERN application enabling users to add, browse, edit, and delete recipes with responsive UI and smooth client-side routing.
- Designed and integrated a RESTful Express API with MongoDB, secured via environment configs, and deployed the frontend on Vercel.

Publication

C = Conference

[**C.1**] Kalemullah, Amaan Mohamed. "Deepfake Classification for Human Faces." *Proceedings of the 7th International Conference on Circuit Power and Computing Technologies (ICCPCT 2024)*, IEEE, May 2024. doi: 10.1109/ICCPCT61902.2024.10672973 ↗