

Aizaz Sharif

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Professional Summary

A computer scientist with 8+ years of experience in AI, data science, and software engineering. I have successfully tackled real-world challenges from autonomous vehicle testing to building end-to-end AI architectures, seeking to leverage my expertise in an innovative technology role.

Technical Skills

AI & ML:	Deep Learning Libraries (TensorFlow, PyTorch, Keras, Scikit-learn) AI Architectures (Transformers, LLMs, Reinforcement Learning, CNNs, GANs, LSTMs) Data Science (NumPy, Pandas, SciPy, Bayesian Statistics) Large Language Models (OpenAI, Hugging Face, LangChain, LangGraph, Pinecone)
Development:	Languages: Python (Expert), SQL, C/C++ , Bash Web: Flask, FastAPI, Streamlit, HTML/CSS/JavaScript
Infrastructure:	Cloud: GCP (Functions, Pub/Sub, Storage) Databases: MongoDB, PostgreSQL, SQLite, Firestore Tools: Docker, Git, CI/CD

Experience

Machine Learning Engineer , AI Dev Lab – Remote (Norway Based)	11/2024 - Present
<ul style="list-style-type: none">Implementing a production-ready LLM-powered platform (app.saleskik.ai) for processing daily meeting recordings, using LangChain, LangGraph, and Pinecone for custom RAG solutionsDeveloping robust backend infrastructure using Python, Firebase, and extensive Google Cloud services (Functions, Pub/Sub, Storage, Secret Manager), while following software engineering best practicesManaging end-to-end ML/LLM development lifecycle from prototyping to production deployment, creating intelligent conversation processing pipelines	
Machine Learning Engineer , CogniMindAI – Remote (Norway Based)	12/2023 - 02/2024
<ul style="list-style-type: none">Created an initial ML engine with various databases for predictive modeling and AI chatbot for customer supportUtilized Langchain, Pinecone, Chroma, and LocalGPT for creating an initial RAG-based application prototype	
Researcher & Developer , Simula Research Laboratory – Norway	02/2020 - 03/2024
<ul style="list-style-type: none">Led doctoral research on "Testing the Safety and Robustness of Autonomous Cars in a Multi-agent Environment"Developed novel testing frameworks for vision-based autonomous driving models that increased failure detection rates in complex urban environmentsEngineered data pipelines for high-dimensional camera images and time series data for autonomous vehicle testingImplemented validation protocols for safety-critical autonomous systems, ensuring model robustness against edge casesOpen-sourced three frameworks on GitHub that advance autonomous driving technology through contributions to reinforcement learning, benchmarking, and reward modeling research	
Team Lead , NCCS – Pakistan	02/2019 - 01/2020
<ul style="list-style-type: none">Led a team of software developers for the 'Mobile Phone Digital Forensics' toolkitImplemented a Python-based Flask backend for REST API calls and SQLite for Android device databasesConstructed a Web application for the acquisition, analysis, and reporting of Android devices for criminal investigationMaintained a software workflow that was released to authorities for beta testing	
Research Assistant , FAST NUCES – Pakistan	09/2017 - 02/2019
<ul style="list-style-type: none">Participated in research areas on Generative Models, Natural Language Processing, Android Malware Detection, Bioinformatics, Graph Theory, and Medical ImagingPublished 2 conference papers and 1 journal article on Android malware detection, Android security, and Medical Imaging	
Software Engineer , DCUBE Technologies – Pakistan	04/2017 - 06/2017
<ul style="list-style-type: none">Integrated state-of-the-art OCR libraries in 1 month to an ongoing C++ based large-scale library for live deployment	

- Increased the accuracy of the OCR prediction by 10% along with performance optimization
- Gained skills in OCR Pipeline, Python Linux Shell Scripting, Computer Vision, and Deep Learning

Software Engineer, Techlogix – Pakistan

10/2016 - 04/2017

- Implemented a workflow using PL/SQL for a smooth migration process from the old to the proposed Oracle Solution under strict deadlines

Education

University of Oslo, Ph.D. Computer Science – Norway

02/2020 - 08/2023

FAST NUCES, M.Sc. Computer Science – Pakistan

08/2017 - 07/2019

- GPA: 3.61/4.0

FAST NUCES, B.Sc. Computer Science – Pakistan

08/2017 - 07/2019

- GPA: 3.84/4.0

Languages

English: Professional Working Proficiency (C2 Level)

Norwegian: Elementary Proficiency (A2 Level)