# ABDUL GHAFFAR ANSARI

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## OBJECTIVE

AI and MLOps professional with dual AWS Certifications in Certified Solutions Architect and Machine Learning Engineer. Skilled in building scalable AI/ML systems, optimizing ML pipelines, and leveraging cloud infrastructure. Expertise in deploying production-grade ML workflows, automating tasks, and extracting actionable insights. Adept in model optimization and collaboration to deliver impactful and intelligent solutions.

## EDUCATION

**Masters of Science in Artificial Intelligence**  Oct 2023 - Present
BRANDENBURGISCHE TECHNISCHE UNIVERSITÄT  *Cottbus, Germany*

**Bachelors of Science in Computer Science**  Aug 2019 - Jun 2023
NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCE  *Karachi, Pakistan*

## EXPERIENCE

**AI Engineer (Part-time)**  Mar 2025 - Present
Fraunhofer FOKUS  *Berlin, Germany*

- Architected an LLM-driven intelligent agent capable of structured information extraction from unstructured prompts, integrating vector search, database enrichment, and regression-based reasoning for dynamic, context-aware outputs.
- Designed and deployed a modular hybrid AI pipeline, fusing transformer-based models, symbolic logic, and classical ML to enable multi-step reasoning and autonomous decision-making in complex environments.
- Implemented a domain-adapted RAG (Retrieval-Augmented Generation) system for the GreenStreaming project, leveraging dense retrievers and chunked embeddings to inject relevant paper context into the chatbot, with traceable, clickable PDF citations.
- Operationalized AutoML pipelines (e.g., hyperparameter search, model evaluation) to accelerate experimentation cycles and improve model generalization across heterogeneous datasets.
- Leveraged Azure AI services to access and integrate large language models (LLMs) and other AI APIs into project workflows, enabling advanced NLP capabilities and seamless cloud-based processing.

**DATA ANALYST (Intern)**  Oct 2022 - Sep 2023
keplerx.co  *Karachi, Pakistan*

- Built scalable ETL pipelines and automated reporting, reducing data preparation and reporting time by 30%.
- Led CRM project, enhancing customer retention by 15% through segmentation and targeted marketing strategies.
- Collaborated with cross-functional teams to deliver predictive analytics, increasing marketing ROI by 20%, and implemented clustering for 25% better results.
- Conducted feature engineering and KPI optimization to streamline workflows and drive actionable business insights.

## PROJECTS

**Hiring-Assistant-Llama** (GitHub)

- Automated tailored job applications using Llama 3.1, LangChain, and ChromaDB. Leveraged embeddings for skill-job alignment and CI/CD pipelines, reducing application time by 70% and improving response rates significantly.

**Generative-AI-Research-Navigator** (GitHub)

- Enhanced research workflows with Generative AI, LangChain, FAISS, and OpenAI. Built an interactive Streamlit app to process 1,000+ data points, enabling semantic search and delivering precise insights for decision-making.

**Virtual-Care-Assistant** (GitHub)

- Developed an LLM-based chatbot with GPT-3.5, HuggingFace, and Pinecone. Delivered real-time healthcare insights, leveraging embeddings to manage 5,860+ records with sub-second query latency.

**Chicken Disease Classification** (GitHub)

- Built an end-to-end CNN classification system with Flask and CI/CD automation. Achieved 92% accuracy, reducing manual disease identification by 85% using scalable deployment on AWS.

## SKILLS

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|---|---|
| **Programming:** | Python, SQL, R, C++, Bash |
| **Cloud & DevOps:** | AWS (SageMaker, EC2), Azure, GCP, Docker, GitHub Actions, Apache Airflow |
| **Data Science & Machine Learning:** | NLP, Data Pipelines, Feature Engineering, Predictive Modeling, Power BI |
| **Tools & Frameworks:** | TensorFlow, Keras, PyTorch, HuggingFace, DVC, MLflow, Git, GitLab, FastAPI |

## CERTIFICATIONS

- AWS Certified Machine Learning Engineer - Associate (Credentials)

- AWS Certified Solution Architect - Associate (Credentials)

- IBM Certified Data Scientist Professional (Credentials)

## LANGUAGES

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|---|---|
| English | C1 (Advanced) |
| German | A2 (Elementary) |