

Faizan Hamid

0-1521-690-8924 | lone@students.uni-marburg.de

 FaizanHamid |  FaizanHamid

Frankfurt, Hessen - Germany

OBJECTIVE

To leverage expertise in ML, RAG, and MLOps to develop scalable, automated AI pipelines and retrieval-based systems that enhance model reliability, accelerate deployment, and improve data-driven operational efficiency.

EXPERIENCE

Solid Works [🌐]

Machine Learning Engineer - MLOps

September 2023 - March 2024

Srinagar, India

- Engineered robust data preprocessing pipelines for ML models, addressing missing data and confounding variables to create high-integrity datasets for accurate statistical estimation.
- Built Python data pipelines to clean, validate, and optimize operational datasets for reliable analytics.
- Engineered MLOps pipelines with MLflow for continuous learning and automated model adaptation.

National Institute Of Technology [🌐]

Research Assistant

March 2023 - July 2023

Srinagar, India

- Built a real-time autonomous navigation system using a TensorFlow CNN for visual perception and control.
- Optimized model reliability via drift analysis, hyperparameter tuning, and end-to-end system integration.

Solid Works [🌐]

React-Intern

July 2021 - January 2022

Srinagar, India

- Built responsive React.js apps using ES6+, React Router, and Redux for state management.
- Developed Node.js/Express APIs with MongoDB for CRUD, auth, and validation.

PROJECTS

Phishing URL Detection System

Tools: Python, FastAPI, Scikit-learn, MLflow, MongoDB

August 2025



- Built a phishing ETL pipeline with Python, MongoDB, and scikit-learn using KNN imputation for accuracy.
- Built an MLOps pipeline with MLflow, DagsHub, AWS S3, and Dockerized FastAPI for real-time detection.

Retrieval-Augmented Generation (RAG) Pipeline

Tools: langchain-community, LangGraph, OpenAI, FAISS, PyDantic, python-dotenv

June-July 2025



- Engineered a modular document ingestion pipeline for PDFs, TXT, and web pages, reducing manual preprocessing by 40%.
- Built LangGraph workflow nodes to orchestrate end-to-end RAG pipelines, including retrieval and generation.

EDUCATION

Philipps-Universität Marburg

M.Sc. in Data Science

Apr 2024 – Sep 2026

Marburg, Germany

University of Jammu

B.E. in Computer Engineering

Aug 2019 – Sep 2023

GPA: 2.5 (Good) | Ranked among top 10% of class

Jammu, India

SKILLS

- Programming Languages:** Python, Java, JavaScript
- Web Technologies:** React, Node.js, Express.js
- Databases:** MySQL, PostgreSQL, MongoDB
- Data Science & ML:** Scikit-learn, TensorFlow, PyTorch, Keras, XGBoost, Pandas, OpenCV, NumPy
- DevOps & Tools:** Docker, Git, GitHub Actions, CI/CD pipelines

ADDITIONAL INFORMATION

Languages: English, German(A2)