

MUHAMMAD AIMAL REHMAN

City: Atlanta, GA-USA (fine with relocating)

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Education

Georgia State University

MS Applied Statistics (Data Science & Machine Learning focus) (CGPA: 4.00/4.00)

Graduate Lab Assistant: College Algebra

Sep 2025 – Present

Atlanta, GA-USA

Lahore University of Management Sciences (LUMS)

MS Electrical Engineering (CGPA: 3.22/4.00)

Graduate Teaching Assistant: Applied Probability

Sep 2017 – Jun 2019

Lahore, Pakistan

COMSATS University Islamabad

BS Electrical Engineering (CGPA: 3.27/4.00)

Feb 2012 – Jan 2016

Lahore, Pakistan

Experience

Turing.com

Data Scientist (Remote-Independent Contractor)

May 2024 – Aug 2025

Palo Alto, CA, USA

- Developed high-quality, production-style Python notebooks to fine-tune Google Gemini for Python programming, data analysis, and machine learning tasks, focusing on correctness, robustness, and evaluation quality

Tkxel

Senior Data Scientist

Feb 2024 – Jul 2024

Lahore, Pakistan

- Led development of an AI-powered taxation software chatbot powered by locally-hosted Llama-3, and using RAG, enabling users to navigate complex taxation workflows through natural language queries
- Developed an AI-powered Executive Assistant leveraging ChatGPT and using RAG, over internal marketing, sales, and HR data, enabling executives gain quick insights and develop case studies, sales decks, etc.

SeeThruTec

Data Scientist

Jul 2023 – Jan 2024

Lahore, Pakistan

- Designed intelligent document-processing pipelines using OCR and NLP to detect plagiarism in medical records and validate correspondence between records and insurance claims

Clinical Imaging Lab (LUMS)

Research Associate

Jul 2022 – Jun 2023

Lahore, Pakistan

- Developed a novel 3D–2D Hybrid U-Net for accurate and efficient segmentation of cardiac blood pools from lossy MRI scans, supporting cardiac function assessment and disease diagnostics

TG Technologies (TechGenies)

Data Scientist (Remote)

Aug 2022 – Feb 2023

Islamabad, Pakistan

- Analyzed organizational HR data to study employee turnover and absenteeism, uncovering operational patterns through statistical analysis
- Deployed ARIMA and FB-Prophet models for time-series forecasting of employee absenteeism

Synavos (Seamless Distribution Systems)

Big Data Analyst

Jan 2022 – Aug 2022

Lahore, Pakistan

- Analyzed large-scale telco supply-chain data to support business operations across Africa and the Middle East
- Developed and deployed ARIMA-based forecasting models for data traffic and mobile-money revenue trends

Afiniti

Data Scientist-I

Aug 2020 – Oct 2021

Islamabad, Pakistan

- Developed and deployed machine learning models (Decision Trees, LightGBM, Bayesian methods) for intelligent call-to-agent pairing, improving average gain per call in production systems

Information Technology University

Teaching Assistant

- Graduate Course: Statistical & Mathematical Methods for Data Sciences

Embedded Systems Lab (LUMS)

Research Assistant

- Optimization of Bayesian belief propagation network as a channel decoder, using statistical learning for energy-efficient channel codes

Sep 2019 – Jan 2020

Lahore, Pakistan

Mar 2016 – Mar 2017

Lahore, Pakistan

Technical Skills

Programming Languages: Python, R, SQL, C

Data Science & Machine Learning Frameworks: PyTorch, TensorFlow, Scikit-learn, PySpark, OpenCV, Scikit-LLM, Streamlit, Gradio, Flask, FastAPI

Data Tools & Platforms: JupyterLab, VS Code, DBeaver, Tableau, MS Office (Excel, PowerPoint, Word)

DevOps & Version Control: Docker, Git, Linux

AI/LLM Tools: OpenAI, Ollama

Project & Workflow Management: JIRA

Notable Projects

Sales ChatBot | *Python, Streamlit*

- Sales ChatBot based on OpenAI's ChatGPT by exposing sales data stored in a vector database and masking sensitive information using AWS Named Entity Recognition service

ragR — RAG & RAGAS Evaluation Framework (R) | *R, Plumber*

- Implements RAG pipelines and RAGAS-style evaluation metrics (context precision, recall, answer relevance, faithfulness) as a research-grade R package

Aerial Image Segmentor | *PyTorch, Scikit-learn*

- Trained and evaluated a U-Net model for pixel-wise multi-class classification of aerial drone imagery in an urban environment

Comparative Study on Image Segmentation | *PyTorch, Scikit-learn*

- A comparative study between U-Net and Attention U-Net on binary class lung segmentation of chest X-ray scans using MedPy metrics: Dice Correlation, Hausdorff Distance

Multi-Level Compress & Forward Coding for Half-Duplex Gaussian Relays | *MATLAB, C*

- Information theoretic analysis of Compress & Forward coding scheme for relay channels followed by design & simulation of Low-Density Parity Check codes

Blood Clot Etiology Detector | *PyTorch, Scikit-learn*

- Downstream-trained Efficient-Net (B0) for binary classification of etiology of stroke blood clots over digital whole slide imaging (WSI) slices of Mayo Clinic-Strip AI dataset

Research Paper

- Towards design and automation of hardware-friendly NOMA receiver with iterative multi-user detection [[Link to Paper](#)]

Certificates

- Agentic AI (*currently enrolled on deeplearning.ai*)
- 5-Day AI Agents Intensive Course with Google/Kaggle (*currently enrolled in self-paced manner*)
- Deep Learning by deeplearning.ai on Coursera
- Basic HIPAA Privacy & Security Certification

Others

- Served as Boys Hostel Proctor, COMSATS University Islamabad-2015
- Active member of Civic Engagement Society, COMSATS University Islamabad, for the year 2015