

MUHAMMAD AIMAL REHMAN

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

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Education

Georgia State University

Sep 2025 – Present

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

Atlanta, GA-USA

Graduate Lab Assistant: College Algebra

Lahore University of Management Sciences (LUMS)

Sep 2017 – Jun 2019

MS Electrical Engineering (CGPA: 3.22/4.00)

Lahore, Pakistan

Graduate Teaching Assistant: Applied Probability

COMSATS University Islamabad

Feb 2012 – Jan 2016

BS Electrical Engineering (CGPA: 3.27/4.00)

Lahore, Pakistan

Experience

Turing.com

May 2024 – Aug 2025

Data Scientist (Remote-Independent Contractor)

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

Feb 2024 – Jul 2024

Senior Data Scientist

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

Jul 2023 – Jan 2024

Data Scientist

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)

Jul 2022 – Jun 2023

Research Associate

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)

Aug 2022 – Feb 2023

Data Scientist (Remote)

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)

Jan 2022 – Aug 2022

Big Data Analyst

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

Aug 2020 – Oct 2021

Data Scientist-I

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

Sep 2019 – Jan 2020

Teaching Assistant

Lahore, Pakistan

- Graduate Course: Statistical & Mathematical Methods for Data Sciences

Embedded Systems Lab (LUMS)

Mar 2016 – Mar 2017

Research Assistant

Lahore, Pakistan

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

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