# Muhammad Aimal Rehman

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

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## Objective

AI / Data Science Graduate Student with 6 years of industry experience across machine learning, analytics, and generative AI. Currently pursuing an MS in Applied Statistics and seeking a Summer 2026 Data Science / Analytics / AI internship to contribute to product-driven, large-scale intelligent systems.

## 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 using Llama-3, using RAG, enabling users to navigate complex taxation workflows through natural language queries
- Built an Executive Assistant leveraging ChatGPT in 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
- Supported fraud, waste, and abuse detection workflows for U.S. healthcare insurance use cases

**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