

# 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

Atlanta, GA-USA

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

Graduate Lab Assistant: College Algebra

### Lahore University of Management Sciences (LUMS)

Sep 2017 – Jun 2019

Lahore, Pakistan

MS Electrical Engineering (CGPA: 3.22/4.00)

Graduate Teaching Assistant: Applied Probability

### COMSATS University Islamabad

Feb 2012 – Jan 2016

Lahore, Pakistan

BS Electrical Engineering (CGPA: 3.27/4.00)

## Experience

### Turing.com

May 2024 – Aug 2025

Palo Alto, CA, USA

Data Scientist (Remote-Independent Contractor)

- 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

Lahore, Pakistan

Senior Data Scientist

- 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

Lahore, Pakistan

Data Scientist

- 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

Lahore, Pakistan

Research Associate

- 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

Islamabad, Pakistan

Data Scientist (Remote)

- 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

Lahore, Pakistan

Big Data Analyst

- 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

Islamabad, Pakistan

Data Scientist-I

- 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

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**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

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### 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

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

## Certificates

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- 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

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