Muhammad Aimal Rehman

City of Residence: Atlanta, Georgia-USA

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Objective

Data Scientist with 5 years of experience delivering AI solutions – spanning computer vision, time-series, and generative AI. Currently advancing expertise in Applied Statistics and seeking a Summer 2026 internship to apply innovative data science at scale.

Education

Georgia State University   **Sep. 2025 – Present**
MS Applied Statistics   *Atlanta, GA-USA*
Graduate Lab Assistant: College Algebra

Lahore University of Management Sciences (LUMS)   **Sep. 2017 – June. 2019**
MS Electrical Engineering (CGPA: 3.27/4.00)   *Lahore, Pakistan*
Graduate Teaching Assistant: Applied Probability

COMSATS University Islamabad   **Feb. 2012 – Jan. 2016**
BS Electrical Engineering (CGPA: 3.22/4.00)   *Lahore, Pakistan*

Experience

Turing.com   **May 2024 – August 2025**
Data Scientist (Remote-Independent Contractor)   *Palto Alto, CA-USA*
- Preparing high-quality Python notebooks for fine-tuning Google Gemini to specialize in Python programming for data analysis & machine learning

Tkxel   **Feb. 2024 – July 2024**
Senior Data Scientist   *Lahore, Pakistan*
- Lead team on developing AI-powered [1] chatbot to help users navigate taxation software (Llama3) and [2] Executive Assistant to answer user queries leveraging the in-house marketing, sales, and human resource data (ChatGPT)

SeeThruTec   **July. 2023 – Jan. 2024**
Data Scientist   *Lahore, Pakistan*
- Developed intelligent document processing units using optical character recognition techniques that check plagiarism among medical records, and correspondence between a set of medical records and an insurance claim to help detect fraud, waste & abuse of US healthcare insurance

Clinical Imaging Lab (LUMS)   **July. 2022 – June. 2023**
Research Associate   *Lahore, Pakistan*
- Developed novel (3D-2D Hybrid) Deep Learning models to accurately & efficiently segment cardiac blood pools on lossy 3D & 2D cardiac MRI scans to assess cardiac functionality & disease diagnostics

TG Technologies (TechGenies)   **Aug. 2022 – Feb. 2023**
Data Scientist (Remote)   *Islamabad, Pakistan*
- Analyzing client's organizational data of human resources for employee turnover & absenteeism analysis
- Deployed ARIMA & FB-Prophet models for time-series forecasting on employee absenteeism

Synavos (Seamless Distribution Systems)   **Jan. 2022 – Aug. 2022**
Big Data Analyst   *Lahore, Pakistan*
- Analyzed supply chain data of telco companies to enhance businesses in Africa & the Middle East
- Developed & deployed an ARIMA model to forecast data traffic and mobile money revenue in regions of operations

Afiniti.com   **Aug. 2020 – Oct. 2021**
Junior Data Scientist   *Islamabad, Pakistan*
- Developed & deployed AI models (Decision Trees, Light Gradient Boosting models & Bayesian techniques) for intelligent pairing of incoming calls with agents to improve average gain per call

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

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

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

JPX Tokyo Stock Forecast | *Python, Scikit-learn*
- Exploratory data analysis and time series forecasting with ARIMA (and its variants) on JPX Tokyo Stock Exchange to predict the expected returns of stocks

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

- Deep Learning by deeplearning.ai on Coursera

- Business Statistics and Analysis by Rice University on Coursera

- IELTS (Academic) with band 7.5/9.0

- Basic HIPPA 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