Imtiaz Ali

Address: Nawab Shah, Sindh, Pakistan
Email: imtiazalidahri3535@outlook.com **WeChat**: ImtiazAli78635
Google_Scholar: Profile_link

OBJECTIVE

Mathematics and Statistics graduate with a solid background in data analysis, statistical modeling, machine learning, deep learning, and generative AI. Eager to apply my expertise in data analysis, machine learning, and statistical modeling to explore advanced topics in agentic Reinforcement Learning, contributing to cutting-edge research in AI and computational techniques. Seeking opportunities to contribute to research in Data Science and AI while continuing to advance my skills through interdisciplinary collaboration across science, engineering, and technology domains.

Research interest:

• Agentic Reinforcement Learning (RL) and its applications in autonomous systems.

• Machine learning, deep learning and Generative AI applications.

• Data-driven predictive modeling and decision-making in AI.

EDUCATION

Bachelor of Science in Mathematics and Statistics
Quaid-e-Awam University of Engineering, Science & Technology, Nawabshah 67480, Sindh - Pakistan.
Duration: January 2016 – November 2019   **Degree Completed in:** 80% *and* **GPA:** 3.2/4

Major Courses

- Linear Algebra & Computer Algebra System
- Ordinary Differential Equations & PDE's
- Calculus (Advance level)
- Graph Theory
- Discrete Mathematics
- Business Math and Financial Accounting
- Real Analysis and Complex Analysis I & II
- Cryptography

- Statistics I & II
- Probability applications
- Econometrics
- Stochastic Processes & Theory of Queues
- Tensor Analysis
- Numerical Analysis I & II
- Optimization Techniques
- Operation Research

TECHNICAL SKILLS

- **Python:** Proficient in machine learning, deep learning, and generative AI (using libraries such as TensorFlow, PyTorch, and scikit-learn).
- **R_Studio:** Expertise in statistical analysis and data visualization (using libraries like ggplot2, dplyr, and caret).
- **Hugging Face:** Experience in building AI-powered applications, e.g. Chatbots.
- **MAPLE & MATLAB:** Applied for complex mathematical modeling and computational analysis.
- **MySQL:** Skilled in relational databases and data manipulation.
- **MS Office & LATEX:** For research writing.
- **LangChain and Langraph:** Expertise in developing applications using LangChain for language model-based tasks and workflows.

Publications

- Efficient Personal Photo Retrieval with CLIP, BLIP, and FAISS: Bridging the Semantic Gap (Published: DOI: https://doi.org/10.51239/jictra.v16i1.357)
- Attention-based TFLSTM and XGBoost Hybrid Model for Stock Prediction (Submitted)
- Data Analytics for Improving Educational Outcomes: A Statistical Study on Students' Performance and Learning Patterns (In Progress).
- Graph Neural Networks vs. DeepSurv: Advancing Risk Stratification in Breast Cancer Survival Prediction (In Progress).
- Improving Heart Attack Risk Prediction Accuracy with Random Forest Classification (In Progress).

GitHub PROJECTS

Hands on Python, R and MySQL Programing languages

- Deep Learning projects.
- Reinforcement Learning projects
- Machine-Learning-Predicting-Models.
- Survival-Analysis.
- Data-set-Analysis.

EXPERIENCES

Statistics Specialist, Indus Academy Kazi Ahmed Pakistan

Duration: January 2020 – August 2022

- Developed and taught board-aligned Statistics curriculum with interactive lessons and assessments.
- Got Expertise in Statistics: Descriptive, Inferential & Probability.
- Delivered personalized support with data-driven strategies and statistical tools (R, Python).

Science Instructor (bps-14), Education dept. govt. Sindh Pakistan

Duration: August 2022 – Present

- Strong Plan, deliver and assess lessons in mathematics and computer science.
- Ability to adapt to diverse learning needs and styles.
- Effective classroom management and organization skills.

Freelance Data Scientist & AI Developer

Upwork and Fiverr (Remote)

Duration: 2023 – Present

- Delivered end-to-end data science solutions including data preprocessing, visualization, modeling etc.
- Built AI-powered applications and chatbots using Python, LangChain, Hugging Face, and OpenAI APIs.
- Completed projects in machine learning, deep learning, and generative AI for clients in health, education, and business sectors

ONLINE COURSES

1. Deep Learning Specialization – Coursera (offered by Andrew Ng)
2. Complete Machine Learning, NLP Bootcamp MLOPS & Deployment – Udemy
3. Reinforcement Learning AI Course – Stanford Online.
4. Agentic AI Certification Training Course – Edureka.
5. Reinforcement & Decision-Making for Agentic AI (with Python) – NobleProg
6. IBM Python for Data Science – Coursera
7. Mathematics for Machine Learning Specialization – Coursera (offered by Imperial College London)
8. SQL for Data Science – Coursera
9. R Programming for Statistics & Data Science- Udemy
10. IBM Data Science Professional Course - Coursera
11. MS Office – edX
12. LATEX – edX

SEMINARS & CONFERENCES ATTENDED

1. Attended The 1st National Conference on Recent **Advances in Pure and Applied Mathematics** December, 2018 Organized by The Department of Mathematisramatic at QUEST NAWAB SHAH(as assistant organizer).
2. Attended The **2nd** National Conference on Recent **Advances in Pure and Applied Mathematics** December, 2019 Organized by The Department of Mathematisramatic at QUEST NAWAB SHAH. (as assistant organizer).
3. The 1st International Conference on Recent **Advances in Computing, AI, and Data Science** (CAIDS-2023) ,Riphah International University, Islamabad, Pakistan (as Participant).
4. HD4 Pakistan | Health Data for Pakistan: **A Health Data Science Conference (2025)**, The Aga Khan University, Karachi, Pakistan (as Participant).
5. Attended 1st International Conference on **Computational Sciences and Technologies** (INCCST19) JAN2025 @ MUEST Jamshoro (as Participant).

HONOURS AND AWARDS

- **Fully Funded Scholarship** during Bachelor's – HEC Government of Pakistan   **(2016 to 2019)**

- **Appreciation Certificates & Trophies** for Assistant Organizer roles, 1st & 2nd National Conferences on Pure & Applied Mathematics, QUEST NAWAB SHAH   **(2018 & 2019)**

- **Best Social Worker** Field work Award for work in 2022 floods   **(2022)**

- **Best Teacher** Award by District Education Office   **(2023 & 2024)**

LEADERSHIP EXPERIENCE

- **Assistant General Secretary,** Youth Peace and Support QUEST sindh, pakistan 08-12-2016 to 11-11-2019
- **Focal Person**: Mathematics and Statistics Department Quest University
- **Lead Role,** In social worker Team (Lashari Ramzan Foundation)

LANGUAGE PROFICIENCY

- English, Urdu & Sindhi.

REFERENCES

- **Prof. Rajab Ali Malookani**

  Position: - Chairman Mathematics & Statistics Department

  University: - Quaid-e-Awam University of Engineering, Science & Technology Nawab Shah, Pakistan

  Email: - rajabali@quest.edu.pk

  Phone: - +923013536218

- **Assistant Professor Imran Ali Kanhio**

  Position: - Assistant Professor Mathematics & Statistics Department

  University: - Quaid-e-Awam University of Engineering, Science & Technology Nawab Shah, Pakistan

  Email: - imran.kanhio@quest.edu.pk

  Phone: - +923342728026