# Taimoor Ul Islam

## Machine Learning Engineer

Specializing in NLP, LLMs, and Reinforcement Learning (RL) for financial markets. Skilled in developing predictive models and intelligent trading systems by leveraging deep learning and sequential data analysis. Dedicated to advancing AI-driven financial insights through research and practical applications.

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📍 Peshawar, Pakistan

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## TECHNICAL SKILLS

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|---|---|---|---|
| **Programming Languages** | Python, R, C++, SQL, Bash | **Machine Learning & AI** | Supervised & Unsupervised Learning, Deep Learning, Reinforcement Learning, Time Series Forecasting |
| **Data Science & Analytics** | Pandas, NumPy, Matplotlib, Feature Engineering, Data Preprocessing & Augmentation | **Libraries & Frameworks** | TensorFlow & Keras, scikit-learn, Hugging Face Transformers, OpenAI Gym, LangChain |
| **NLP & Large Language Models** | Word Embeddings, Transformers, Text Summarization, Sentiment Analysis, Prompt Engineering & Fine-tuning LLMs, Vector Search | **AI for Finance & Trading** | Algorithmic Trading Strategies, Time Series Analysis, Market Sentiment Analysis, Portfolio Optimization, Reinforcement Learning for Trading |
| **Mathematics & Algorithms** | Linear Algebra, Probability & Statistics, Optimization, Calculus, Numerical Methods, Graph Theory, Dynamic Programming | **Databases & Big Data** | SQL (PostgreSQL, MySQL), NoSQL (MongoDB), Time-Series Databases (InfluxDB), Cloud Storage (Google Cloud Storage) |
| **Deployment & MLOps** | Model Deployment (FastAPI, Flask, Streamlit), CI/CD (GitHub Actions), Cloud Platforms (AWS, GCP) | **Other Tools & Technologies** | Git, Jupyter, Matlab, VS Code, Google Colab, APIs (REST, GraphQL) |

## EDUCATION

### Bachelor of Computer Science
City University of Science and Information Technology

*11/2022 - Present*                                                                                                    *CGPA 3.14/4*

## CERTIFICATES

**Financial Analysis with ARIMA and Time Series Analysis (03/2025 - 03/2025)**
*Course offered by Packt through coursera*

**Fundamental of Equities (02/2025 - 02/2025)**
*Course offered by Interactive Brokers through coursera*

**IBM Machine Learning Engineer Professional Certificate (01/2025 - 02/2025)**
*Professional Certificate offered by IBM through coursera comprised of 6 courses*

**Machine Learning Specialization by Andrew Ng (11/2024 - 01/2025)**
*Specialization by Andrew Ng (Standford and Deeplearning.AI) offered through coursera comprised of 3 courses*

**Natural Language Processing Specialization (01/2025 - 03/2025)**
*Specialization by DeepLearning.AI offered through Coursera comprised of 4 courses*

**Introduction to AI and ML on Google Cloud Platform (02/2025 - 02/2025)**
*Course offered by Google Cloud*

**Associate Data Scientist (11/2024 - 01/2025)**
*Completed Associate Data Scientist Track on Data Camp*

**Artificial Intelligence (04/2025 - 09/2024)**
*Course certification under by NAVTTC PM Youth Development Program Govt. Pakistan*

# PERSONAL PROJECTS

## Large Language Model for Financial Analysis (Work in Progress) (04/2025 - Present) ⬈
- Developing an LLM-based system for fundamental stock analysis using financial reports and market news. Fine-tuning a transformer model to extract key insights and generate stock recommendations. Technologies: Python, Hugging Face Transformers, LangChain, Pinecone
- github.com/meerilahi/llm-financial-analysis

## Reinforcement Learning for Stock Trading (Ongoing) (04/2025 - Present) ⬈
- Designed a reinforcement learning agent to optimize trading strategies and maximize portfolio returns. Technologies: Python, PyTorch, OpenAI Gym, RLlib
- github.com/meerilahi/rl-stock-trading-agent

## Cricket Game Prediction (03/2025 - 02/2025) ⬈
- Built a machine learning model to predict cricket match outcomes based on historical match data, player performance, and team statistics. Technologies Python, scikit-learn, XGBoost, Pandas
- github.com/meerilahi/cricket-game-prediction

# LANGUAGES

**English**
*Full Professional Proficiency*

**Pushto**
*Native or Bilingual Proficiency*

**Urdu**
*Full Professional Proficiency*

# INTERESTS

Reading Mathematics and ML Books    Working on AI and ML Projects    Working on Personal Development