Muhammad Shaizal Yasin

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Date of birth: 03/05/2002 **Nationality:** Pakistani

ABOUT ME

MSc Data Science student with a BSc in Computer Science and hands-on experience as a Quantitative Developer Intern. Skilled in Python, machine learning, and database management. A proactive learner with strong problem-solving abilities, seeking to apply technical and analytical skills to data-driven projects.

EDUCATION AND TRAINING

[01/04/2025 – Current]

MSc Data Science

FAU Erlangen-Nürnberg https://www.fau.de/

City: Erlangen | **Country:** Germany |

[01/09/2021 – 15/07/2024]

BSc Computer Science

Eötvös Loránd University www.elte.hu

City: Budapest | **Country:** Hungary |

[01/08/2020 – 01/08/2021]

BS Software Engineering

University of the Punjab https://pu.edu.pk/

City: Lahore | **Country:** Pakistan |

[01/04/2018 – 31/03/2020]

FSc Pre-Engineering

Punjab College of Science https://www.pgc.edu/

City: Layyah | **Country:** Pakistan | **Field(s) of study:** Natural sciences, mathematics and statistics

WORK EXPERIENCE

Fürst Group

City: Erlangen | **Country:** Germany

[01/08/2025 – Current]

Cleaner

I clean university campus facilities, including floors and stairways.

Embassy of the Islamic Republic of Pakistan

City: Budapest | **Country:** Hungary

[01/09/2024 – 31/03/2025]

Web Developer Intern

- Manage and maintain the embassy's website, ensuring functionality, user experience, and timely updates for a global audience.
- Collaborate with internal teams to implement design enhancements and improve website performance, optimizing for both desktop and mobile platforms.

Citigroup Inc.

City: Budapest | **Country:** Hungary

[01/06/2023 – 01/04/2024] **Quantitative Developer Intern**

- Built a Python framework to automate Ongoing Performance Analysis (OPA) reporting across multi asset platforms (commodities, equities).
- Implemented new features and bug fixes to improve robustness and accuracy of data processing.
- Contributed to React-based UI development, improving accessibility of analytical tools for quants.
- Collaborated in cross-functional teams to refine workflows and integrate cross-asset market data.

Eötvös Loránd University

City: Budapest | **Country:** Hungary

[01/02/2023 – 01/07/2024] **Teaching Assistant (Algorithms and Data Structures)**

- Conducted weekly consultations and addressed queries from over 80 students both in-person and via MS Teams.
- Prepared, reviewed, and graded weekly homework assignments, and assisted with exam administration and grading.
- Utilized strong communication and interpersonal skills to effectively convey complex concepts to students.

Erasmus Student Network (ELTE) | HÖOK

City: Budapest | **Country:** Hungary

[01/09/2022 – 01/07/2024] **International Student Mentor**

- Mentored over 50 international students in the Erasmus exchange and Stipendium Hungaricum Scholarship programs, providing guidance on academic, administrative, and cultural integration during their time at university.
- Presented monthly and end-of-semester reports to the President of ESN ELTE and the leading faculty mentor, detailing the progress of my mentees, including their integration, participation in university life, and overall well-being.

PROJECTS

[02/2024 – 06/2024] **Pricing and Calibrating Financial Derivatives (TensorFlow, Python)**

- Implemented financial derivatives pricing models using TensorFlow and Automatic Differentiation (AD) to enhance computational efficiency.
- Applied these models to Monte Carlo simulations and high-dimensional calibration problems, demonstrating improved speed and precision.
- Showcased the effectiveness of deep learning platforms for pricing and risk model calibration.

[05/2025 – 06/2025] **Document Q&A Assistant with RAG (Python, LangChain, FastAPI)**

- Built a document-based Q&A assistant using RAG for context-sensitive responses.
- Implemented document embedding, vector storage, and query retrieval for efficient information access.
- Integrated with FastAPI to enable scalable and interactive querying.

SKILLS

Python | SQL | C/C++ | TensorFlow | React | OOP | Data Structures | Algorithms | Databases | Git | Linux | CI/CD | Docker | Microsoft Excel | Atlassian (Bitbucket, Confluence, Jira) | Data Analysis | Machine Learning | Financial Modeling

Soft Skills

Problem Solving | Teaching/Mentoring | Technical Communication | Teamwork

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

German

LISTENING A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

CONFERENCES AND SEMINARS

[31/10/2024] **Compass AI Session 2024**   Budapest, Hungary

[23/11/2023] **Understanding the Diversity of Financial Risk: ML for Prediction and Optimization**
Budapest, Hungary

[05/10/2023 – 06/10/2023] **Compass Tech Summit 2023**   Budapest, Hungary

[16/05/2023 – 19/05/2023] **Craft Conference 2023**   Budapest, Hungary

VOLUNTEERING

[17/09/2024 – 29/09/2024] **Flood Relief Volunteer**   Budapest, Hungary

Assisted the Red Cross Organization in flood relief efforts during an emergency situation in Budapest. Responsibilities included filling and positioning sandbags, supporting logistical tasks, and collaborating with other volunteers to safeguard impacted areas. Demonstrated adaptability, teamwork, and commitment to community safety in high-pressure circumstances.

[10/09/2024 – 23/09/2024] **Fair Play Volunteer - 45th FIDE Chess Olympiad**   Budapest, Hungary

Volunteered with the fair play team at the 45th FIDE Chess Olympiad in Budapest, overseeing activities within the playing hall to uphold integrity and fair competition. Responsibilities included monitoring player conduct, ensuring compliance with tournament regulations, and supporting smooth event operations. Demonstrated attention to detail, strong observational skills, and commitment to fair play standards in an international setting.