

Farwa Zahid

+92 (316)-934 0114 | farwazahid427@gmail.com | [Linkedin](#) | [Github](#)

Achievements

- IELTS Academic (2025): Overall Band 7.0 ([CEFR C1](#)); S: 7.0 | W: 7.0 | R: 7.0 | L: 7.5
- Hackathons (2025): NASA Space Apps [Global Nominee](#), CodeFusion frontend developer, Hack-Nation MIT contributor for BetGPT platform.
- Coding:[Competitions \(2025\)](#), (3rd/355 teams) M(IT)², (126/562 teams) CALICO participant, Meta Hacker Cup participant.
- Secured a [merit-based scholarship](#) for the Data Science and AI Bootcamp (2023) at atomcamp.
- Recognized as [Employee of the Quarter](#) (Q1 2025) at Invest2Innovate for dedication and commitment.
- Co-authored [Startup Ecosystem Report 2024](#), a biennial study widely referenced nationally and internationally.

Education

BS in Mathematics, International Islamic University Islamabad Sept 2019 – Jun 2023

- GPA: 3.5/4.0 ([Transcript](#))
- **Coursework:** Calculus I–III, Linear Algebra, Real Analysis I–II, Functional Analysis, Complex Analysis, Group Theory, Rings & Fields, Differential Geometry I–II, Numerical Analysis, Partial Differential Equations, Mechanics, Analytical Mechanics, Optimization Theory, Waves & Oscillations, Elementary Statistics, Mathematical Statistics.

Professional Experience

Data Analyst, Invest2Innovate [🔗](#) Mar 2024 - Present

- Co-authored [PSER 2024](#) by analyzing 143 surveys and 67 interviews, producing 80+ research visualizations.
- Conducted research for newsletters and funding reports, widely referenced nationally.
- Developed the Investor Founder Discovery Platform [IFDP](#) (1500+ profiles), improving onboarding conversion by 30%.

Teaching Assistant, Trainer and Data Analyst, atomcamp [🔗](#) Sep 2023 - May 2025

- Taught SQL, Python, and Excel in Data Science Bootcamps; delivered analytics workshops to 600+ trainees.
- Contributed to an NLP Sentiment Analysis project through data scraping, validation.
- Coordinated 13+ Bootcamps, supporting 8–10 Teaching Assistants and 650+ learners.

Data Analyst Intern, Cyber Vision International Aug 2023 - Oct 2023

- Analyzed sales data (12+ SKUs) and delivered insights leading to 15 percent revenue growth.
- Built dashboards to support branch-level decision-making across 5+ outlets.
- Conducted data analysis and research for a real estate project, providing stakeholders with clear market insights.

Skills

Programming Languages: Python, SQL, C++, Matlab

Libraries and Frameworks: NumPy, pandas, matplotlib, seaborn, scikit-learn, PyTorch, TensorFlow

Databases and Tools: MySQL, Git, GitHub

Data Science and Visualization: Data Cleaning, Exploratory Data Analysis (EDA), Tableau, Excel, KPI Tracking, Data Storytelling

Teaching Experience

Trainer (On-Demand), atomcamp [🔗](#) March 2024 – Present

- Designed and delivered training sessions on Data Analysis, Tableau, Linear Optimization, and Report Writing.
- Taught 600+ professionals and students through workshops and short courses.

- Developed learning materials and practical case studies to improve analytical and problem-solving skills.

Teaching Assistant - Data Science Bootcamps, atomcamp [🔗](#)

Sep 2023 – March 2024

- Assisted in teaching Python, SQL, Power BI, and Machine Learning in Data Science Bootcamps.
- Supported learners through assignments, queries, and hands-on project work.
- Coordinated with trainers and Teaching Assistants to ensure smooth delivery of bootcamps.

Projects

Sentiment Analysis Project (Python, NLP, Data Scraping) - [\(Github\)](#)

Oct 2023 - Feb 2024

- Collected and analyzed social media data (Twitter, Reddit, YouTube, Facebook) using Python web scraping with BeautifulSoup, Scrapy, pandas, NumPy.

Hackathons And Competitions

M(IT)² Coding Competition – MIT (3rd place)

Dec 2025

- Solved algorithmic and combinatorial problems, demonstrating advanced problem-solving and coding efficiency ranked **3rd/355** globally.

Tech Stack: Python, Data Structures and Algorithms

Calico Competitions – UC Berkeley

Nov 2025

- Participated in Calico Competitions by UC Berkeley, solved algorithmic and combinatorial problems in Python, and achieved rank **126/562** globally.

Tech Stack: Python, Data Structures and Algorithms

BetGPT - AI-Powered Prediction Market Engine (Hack nation) [\(Github\)](#)

Nov 2025

- Built an AI-powered prediction-market engine that identified mispriced markets across Polymarket, Kalshi and Manifold, designing the trading dashboard, analytics, and real-time data workflows.

Tech Stack: Base44 (Auth + Storage), OpenAI GPT-4o-mini, Polymarket/Kalshi/Manifold APIs.

AirWatch – Air Quality App (NASA Space Apps Challenge 2025) - [\(Github\)](#)

Oct 2025

- Developed an ML-powered platform using NASA TEMPO and AirNow data to forecast air quality with XGBoost and FastAPI visualizations.

Tech Stack: Python, XGBoost, scikit-learn, FastAPI, Next.js, Mapbox.

Intelligent Wellness Assistant – CodeFusion Hackathon 2025) - [\(Github\)](#)

Oct 2025

- Built an AI chatbot for mood tracking and fitness plans using Python, Streamlit, and Groq API with real-time deployment.

Tech Stack: Python, Streamlit, Groq API, gTTS.

Volunteering and Leadership

Track Lead - Product Management Fellowship, Buildables [🔗](#)

Nov 2025

- Led fellows through modules on product, designed assignments and mentored early-career PMs.

Mentor, DevQuest [🔗](#)

Mar 2025

- Guided students in the Tech in Ramadan series on job search and interview preparation.

Event Organizer, Pakistan–Belgium Dialogue [🔗](#)

Oct 2023

- Supported official diplomatic dialogue featuring the Belgian Ambassador at Bahria University, Islamabad.

Volunteer , Fasset, Web3 and Blockchain Summit [🔗](#)

Nov 2022

- Assisted in event coordination and community engagement during the national blockchain summit.

Certifications

- Data Science and AI Bootcamp - atomcamp [↗](#)
- IBM Data Science Professional Certificate - IBM [↗](#)
- SQL for Data Science - Coursera [↗](#)
- Analyzing Marketing Campaigns with Pandas - DataCamp [↗](#)