

# Farwa Zahid

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## Achievements

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- 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)<sup>2</sup>, (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

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<b>BS in Mathematics</b> , International Islamic University Islamabad	Sept 2019 – Jun 2023
<ul style="list-style-type: none"><li>GPA: 3.5/4.0 (<a href="#">Transcript</a>)</li><li><b>Coursework:</b> Calculus I-III, Linear Algebra, Real Analysis I-II, Functional Analysis, Complex Analysis, Group Theory, Rings &amp; Fields, Differential Geometry I-II, Numerical Analysis, Partial Differential Equations, Mechanics, Analytical Mechanics, Optimization Theory, Waves &amp; Oscillations, Elementary Statistics, Mathematical Statistics.</li></ul>	

## Professional Experience

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<b>Data Analyst, Invest2Innovate</b> ↗	Mar 2024 - Present
<ul style="list-style-type: none"><li>Co-authored <a href="#">PSER 2024</a> by analyzing 143 surveys and 67 interviews, producing 80+ research visualizations.</li><li>Conducted research for newsletters and funding reports, widely referenced nationally.</li><li>Developed the Investor Founder Discovery Platform <a href="#">IFDP</a> (1500+ profiles), improving onboarding conversion by 30%.</li></ul>	
<b>Teaching Assistant, Trainer and Data Analyst, atomcamp</b> ↗	Sep 2023 - May 2025
<ul style="list-style-type: none"><li>Taught SQL, Python, and Excel in Data Science Bootcamps; delivered analytics workshops to 600+ trainees.</li><li>Contributed to an NLP Sentiment Analysis project through data scraping, validation.</li><li>Coordinated 13+ Bootcamps, supporting 8–10 Teaching Assistants and 650+ learners.</li></ul>	
<b>Data Analyst Intern, Cyber Vision International</b>	Aug 2023 - Oct 2023
<ul style="list-style-type: none"><li>Analyzed sales data (12+ SKUs) and delivered insights leading to 15 percent revenue growth.</li><li>Built dashboards to support branch-level decision-making across 5+ outlets.</li><li>Conducted data analysis and research for a real estate project, providing stakeholders with clear market insights.</li></ul>	

## Skills

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**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

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<b>Trainer (On-Demand), atomcamp</b> ↗	March 2024 – Present
<ul style="list-style-type: none"><li>Designed and delivered training sessions on Data Analysis, Tableau, Linear Optimization, and Report Writing.</li><li>Taught 600+ professionals and students through workshops and short courses.</li></ul>	

- 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

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**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

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**M(IT)<sup>2</sup> 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

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**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

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