




# Ishfaque Ahmed

BS Mathematics Student

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 <https://github.com/ishfaque2000>  Khairpur, Pakistan

## ABOUT MYSELF

Mathematics student with hands-on experience in machine learning, data science, and mathematical research. Passionate about algorithms, cryptography, and computational problem-solving, with a proven track record in national mathematics competitions. Driven to bridge the gap between theoretical mathematics and real-world intelligent systems.

## EDUCATION

15/08/2023 – Current Sindh, Pakistan	<b>Sukkur IBA University</b> <i>BS Mathematics</i> CGPA: 3.55
2020 – 2022 Khairpur	<b>Government Superior Science College, Khairpur</b> <i>Intermediate – Pre-Engineering</i> Marks: 901/1100 Grade: A1
2018 – 2020 Khairpur	<b>Government Boys High School, Ubhri</b> <i>Matriculation – Science</i> Marks: 609/850 Grade: A

## PROJECTS & RESEARCH

01/2026 – 05/2026	<b>Identification of Critical Situations in a Metro System: A Substitute Complex Network Analysis</b> <i>Research Project – Sukkur IBA University   Supervisor: Dr. Fazeel Anwar</i> <ul style="list-style-type: none"><li>Modeled metro transportation networks using complex network theory to identify critical failure points</li><li>Applied graph-theoretic algorithms to analyze vulnerability and resilience of metro systems</li><li>Completed and written up – available on request</li></ul>
08/2025 – 12/2025	<b>Evaluation of Real Integrals via Residue Theorem</b> <i>Computational Mathematics Project – Sukkur IBA University   Supervisor: Dr. Fazeel Anwar</i> <ul style="list-style-type: none"><li>Studied and applied complex analysis techniques to evaluate real integrals using the Residue Theorem</li><li>Presented findings through a formal presentation demonstrating theoretical understanding and problem-solving approach</li><li>Explored connections between complex analysis and real-valued integration methods</li></ul>

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## SKILLS

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### Programming Languages

Python · C++

### Machine Learning & Data Science

Machine Learning · Deep Learning · Data Science ·  
Data Visualization · Streamlit

### Mathematical Foundations

Linear Algebra · Probability & Statistics · Number  
Theory · Complex Analysis · Graph Theory ·  
Optimization · Differential Equations · Discrete  
Mathematics

### Python Libraries

NumPy · SciPy · SymPy · Pandas · Matplotlib ·  
Seaborn · Scikit-learn

### Tools

Git/GitHub · Jupyter Notebook · Google Colab · VS  
Code · Tableau · Looker Studio · Mathematica ·  
LaTeX

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## WORK EXPERIENCE

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01/2026 – 03/2026

### CodeAlpha

*Data Science & ML Intern (Remote)*

- Built and evaluated machine learning models using Scikit-learn
- Performed data cleaning, feature engineering, and exploratory data analysis
- Created data visualizations to communicate insights

01/2026 – 03/2026

### Arch Technologies

*Data Science Intern (Remote)*

- Worked on real-world datasets applying full data science pipeline
- Used visualization tools including Matplotlib and Looker Studio

01/2026 – 03/2026

### SyntexHub

*Python Programming Intern (Remote)*

- Developed Python-based projects and automation scripts
- Applied data analysis techniques using NumPy and Pandas

**Note: Three concurrent remote internships — Jan to Mar 2026**

01/09/2024 –

01/09/2025

Sukkur, Pakistan

### Mathematics Society — Sukkur IBA University

*Executive*

- Organized and managed 3–5 mathematics competitions and academic events throughout the year
- Led and coordinated a team of society members to ensure smooth event execution
- Conducted workshops and seminars to promote mathematical thinking among students
- Contributed to growing society membership and strengthening the math community on campus

01/11/2025 – Current

Khairpur, Pakistan

### International Youth Math Challenge

*Ambassador*

- Served as an IYMC Ambassador, actively promoting international mathematics programs.
- Motivated students to participate in competitions and academic challenges.
- Coordinated communication between IYMC and the student community.

- Supported outreach activities to strengthen interest in mathematics.

05/2025  
Sukkur

**LaTeX Workshop — Society for Industrial and Applied Mathematics (SIAM)**  
Hands-on workshop with practical LaTeX training

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## HONOURS AND AWARDS

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15/08/2023

**STHP Scholarship — Sindh Talent Hunt Program**

*Sukkur IBA University*

Currently studying on full merit-based scholarship

2023

**Mathematics Olympiad — 1st Place (Team Competition)**

*Sukkur IBA University*

Sindh Talent Hunt Program (STHP)

01/12/2023

**Mathematics Competition — #rd Place (Solo)**

*Sukkur IBA University*

STEAM\_FEST (Science, Technology, Engineering, Arts & Mathematics) Sukkur IBA University

02/2026

**PM Youth Laptop Scheme— Awardee**

*Government of Pakistan*

Prime Minister's Youth Programme

04/11/2024

**NUST Mathematics Olympiad (NMO) — Participant**

*National University of Sciences and Technology*

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## LANGUAGES

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English

Urdu

Sindhi

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## HOBBIES AND INTERESTS

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Competitive programming | Math puzzles & problem solving | Teaching & tutoring mathematics |

Exploring emerging technologies | Music | Cinema