



# Muhammad Ashfar Khan

Undergraduate student

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Mianwali, Pakistan

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Mathematics undergraduate with a strong foundation in differential equations, linear algebra, and machine learning. Passionate about applying mathematical models to solve real-world problems, with hands-on experience in teaching and data-driven projects.

## EDUCATION

### BS Mathematics

Namal University, Mianwali

03/2025 - Present

#### Courses

- |                                  |                                 |
|----------------------------------|---------------------------------|
| - Ordinary Differential equation | - Partial Differential Equation |
| - Linear Algebra                 | - Machine Learning              |

### Intermediate

Superior Group of Colleges Mianwali

04/2019 - 04/2021

Mianwali

#### Courses

- |               |           |
|---------------|-----------|
| - Mathematics | - Physics |
|---------------|-----------|

## WORK EXPERIENCE

### Private Teacher

Govt Primary School Sanghu Khelen Wala

03/2024 - 04/2024

Mianwali

#### Achievements/Tasks

- |   |
|---|
| - Delivered engaging lessons in mathematics to primary-level students.      |
| - Improved classroom communication and foundational teaching methodologies. |

## SKILLS

Python

Latex

Teamwork

Machine Learning

Teaching

MS Word and Excel

## PROJECTS

### Final Year Project: Mathematical Analysis of Cancer Cell Dynamics (10/2024 - Present)

- Developed a mathematical model incorporating immune-tumor interactions and chemotherapy dosing.
- Aimed to improve understanding of cancer growth and treatment optimization.

### Semester Project: Lotka-Volterra Model

- Analyzed predator-prey dynamics involving locusts and crops using differential equations.
- Gained insights into population modeling and system stability.

## ORGANIZATIONS

Namal Mathematical Society (12/2021 - 04/2022)

## LANGUAGES

English  
Professional Working Proficiency

Urdu  
Full Professional Proficiency

Saraiki  
Full Professional Proficiency

## INTERESTS

Machine Learning

Problem Solving

Critical Thinking

Cricket

Poetry