

Muskan Fatima

Mathematics Undergraduate | Machine Learning, Deep Learning & Data Visualization

Mathematics undergraduate focused on machine learning, deep learning, and data visualization. Applying mathematical methods to real-world problems through data-driven approaches. Completed a final year project on maize stress detection in agriculture using image preprocessing and deep learning. Skilled in Python, data preprocessing, and model evaluation.

✉ muskanfatima.9038@gmail.com

☎ 03069550921

📍 MIANWALI, Pakistan

🌐 muskan-fatima-b7a0182b9

EDUCATION

BS Mathematics

Namal University, Mianwali

Courses

- Machine Learning
- Data Visualization
- Probability & Statistics (I & II)
- Mathematical Biology
- Numerical Methods
- Linear Programming and Optimization

PROJECTS

Image-Based Stress Detection in Maize Crop Using Deep Learning (FYP)

Tech: VS Code, Python, Deep Learning, Wordpress

Key Contributions

- Maize stress detection using six deep learning, six deep learning architectures were evaluated and a web app developed.

Chocolate Sales Analysis Dashboard

Tech: PowerBI, Google Sheets, Data Visualization

Key Contributions

- Built a dashboard for visualizing sales data, best sales persons, and total sales, enabling sales pattern along different countries.

Traffic Sign Recognition Sign

Tech: Python (Pandas), Keras, CNN

Key Contributions

- Developed a CNN-based multi-class traffic sign classification model using Keras, improving image preprocessing techniques.

Weather Data Analysis & Visualization

Tech: Python(Numpy, Pandas, Data Cleaning, Seaborn, Matplotlib, Scikit-Learn)

Key Contributions

- Performed exploratory data analysis on historical weather data using python libraries to uncover seasonal trends.

EXPERIENCE

Oasis Infobyte

Python Programmer Intern

Tasks

- Developed python programs for data processing, data analysis and visualization.
- Created graphs and visual reports using Matplotlib and Seaborn.

Oasis Infobyte

Graphic Designer Intern

Task

- Designed social media posts, posters, and presentation graphics using Canva.
- Developed creative designs for marketing and promotional materials.

SKILLS

Python (Numpy, Pandas)

Matplotlib, Seaborn

Tensor flow, Pytorch

PowerBI, Plotly, and Dash

Data Preprocess

Latex, Excel

Matlab Basics

Image Classification

Canva

Tora

GeoGebra

CERTIFICATES

English and Soft Business Skills

HCC Technology Foundation 2024

Developed professional communication, workplace collaboration, presentation, and interpersonal skills for business environments.

Aspire Leaders Program

Aspire Institute 2025

Completed a global leadership development program focused on personal growth, problem-solving, teamwork, and social impact.

Introduction to Data Science

Virtual University of Pakistan through the Cisco Networking Academy program 2025

Learned foundational concepts of data science, including data analysis, visualization, and real-world applications of data-driven decision making.

Python Essentials 1

Virtual University of Pakistan through the Cisco Networking Academy program 2025

Gained fundamental programming skills in Python, including variables, functions, loops, data structures, and problem-solving techniques.

Achievements

Certificate of Appreciation for being the Assistant Finance Manager

Serve for Humanity Foundation 2025

Recognized for effectively managing financial activities, budgeting, and team coordination in humanitarian initiatives.

IQ Test organized by Victorium in coordination with Umeed Mental Health

Victorium AI 2025

Participated in an analytical and cognitive assessment program focused on problem-solving, reasoning, and intellectual aptitude.

Certificate of Appreciation for being the Student Affairs Head of Math Carnival 2024

Department of Mathematics

Appreciated for leading student affairs management, event coordination, and team organization during Math Carnival 2024.

LANGUAGES

English

Full Professional Proficiency

Urdu

Full Professional Proficiency

INTERESTS

Hiking

Cooking

Stiching and Novels Reading