

# Hasnain Mehmood

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Street No. 63, House No. 519, Sector G-9/4, Islamabad, Pakistan

**OBJECTIVE** Data Science and Mathematics professional with 2+ years of teaching experience and research expertise in Machine Learning and Computer Vision. Seeking a Lecturer position to deliver high-impact education while advancing research in precision agriculture and AI applications.

## EDUCATION MS in Data Science

2022–2024

Air University, Islamabad

*Thesis:* Crops Identification and Disease Classification using RGB Imagery

- Developed ensemble model (MobileNet, ResNet50, SVM) for crop/disease classification (AUC-ROC: 0.95).
- Optimized with genetic algorithms and PSO-based feature selection.

## BS in Mathematics

2018–2022

COMSATS University, Islamabad

*Thesis:* Perturbation Solution of Differential Equations via Linstedt-Poincaré Technique

## TEACHING EXPERIENCE Mathematics Teacher

2020–2022

Allied School, Islamabad

- Designed curriculum-aligned lessons and assessments for 100+ students.
- Awarded *Best Teacher Award (2021)* for fostering inclusive learning.

## Section Leader (Computer Science)

2024

Stanford University (Remote)

- Led Python programming labs; mentored 30+ students in algorithmic problem-solving.

## TECHNICAL SKILLS

- **Programming:** Python (TensorFlow, Keras), MATLAB, SQL
- **Data Science:** Pandas, Scikit-learn, OpenCV, Tableau
- **Teaching Tools:** LMS Platforms, LaTeX, Jupyter Notebook
- **Research:** Computer Vision, Deep Learning, Statistical Analysis

## RESEARCH PROJECTS Crop Disease Classification

- Integrated multi-source datasets (Kaggle, CCMT); achieved F1-score: 0.92.

## Predictive Maintenance for Industrial Machines

- Developed ML model (92% accuracy) using sensor data.

## CERTIFICATIONS

- IBM Data Science Professional (Coursera, 2021)
- Python for AI/Data Science (IBM, 2021)

## AWARDS

- Prime Minister Laptop Scheme (2023) — Semester Merit Scholarship (2023)