

# Saira Farooq

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## Education

**FAST - National University of Computer and Emerging Sciences, Islamabad.**

**Master of Science (Computer Science)**

**2023**

**Major:**

Data Science, Deep Learning, Machine Learning, Image Processing, Research, Database Administration, and Software Project Management & Engineering.

**International Islamic University, Islamabad.**

**Federal Collage of Education H-9**

**B Ed(1.5)**

**Bachelor of Science (Computer Science)**

**2021**

**Major:**

Data Science, Software Project Management, Application Development, Database Administration, Machine Learning, Artificial Intelligence

**IMCG (Post Graduated) F-7/2, Islamabad**

**F.Sc (Physics, Chemistry, Mathematics)**

**2017**

**IMSG(VI-X) I-10/4, Islamabad**

**Matriculation (Physics, Chemistry, Biology, Mathematics)**

**2015**

## Projects

**MS Thesis: Detection of Foliar Diseases in Apple Tree using Machine Learning**

Apple is a popular fruit crop that is susceptible to a variety of foliar diseases. Early and accurate detection of these diseases is crucial for effective disease management. Deploy the trained model Using Apple tree leave dataset.

**Final Project: Rush Hurdle 3D game based on Artificial Intelligence environment**

Based on AI, 3D environments, pretrain, and other game assets. AI used to control the behavior and actions of NPCs in the game which can make enemies more challenging and unpredictable for the player.

## Jobs Projects

**Pathos:** Developed APIs and integrated PostgreSQL for real-time processing of audio, text, and PDF data to analyze and predict individuals' behavior.

**Affect-cx:** An AI-driven behavioral and emotion analytics engine that integrates with video conferencing and CRM platforms, providing real-time behavioral insights, cognitive resonance analysis, and automated task generation to enhance virtual communication and sales performance.

**Animal Clustering Project:** Developed an animal clustering project using a dataset of 90 animal classes with 500 images, generating 3D projections, exporting 128x128 thumbnails, and corresponding 3D coordinates in JSON for frontend integration.

**Alpaca Classification Project:** Developed an Alpaca classification model using neural networks or conventional ML techniques, performing binary classification and evaluating with AUC-ROC, integrated with a FastAPI to predict class and confidence score from a single image, optimized for training on a local laptop CPU.

**Beep Classification Project:** The task involves cleaning a dataset by removing pork-related images, assessing class Distribution, collecting and annotating additional images to balance the dataset, and merging the new annotations to prepare for model training.

## Work Experience

**Machine Learning Engineer, Dive Deep Ai**

**Dec 2024-  
Present**

Experience of working on real time project, developing AI models, focusing on data analysis, model training.

**Machine Learning Internship, Dive Deep Ai**

**Sep 2024-  
Nov 2024**

Hands-on experience developing AI models, focusing on data analysis, and evaluation in real-world applications.

**Visiting Faculty Teacher, Rawalpindi Women University, Rawalpindi**

**Feb 2024-  
July 2024**

Lecturing Students, Assign and explain homework, Effectively engage students

**Sales E-commerce specialist, Hyper Future**

**Dec 2023-  
Jan 2024**

Driving online sales growth through strategic planning, market analysis, and customer engagement

**Teaching Assistant, FAST- National University of Computer and Emerging Sciences, Islamabad**

**Jan 2023-  
July 2023**

Assisting with exam preparation, Grading assignments and Quizzes, Taking students demos

**Assistant, Allama Iqbal Open University, Islamabad**

**Jan 2019-  
July 2020**

Preparing a comprehensive list of student results and thoroughly evaluating their performance.

## Skills & Tools

**Professional Skills**

Leadership, Interpersonal Skills, Communication, Adaptability, Time Management

**Technical Skills**

C, C++, Python, Tensor Flow, Machine Learning, Deep Learning, Research Writing PL/SQL, No SQL, Sci-kit Learn , SQL, HTML, CSS, PHP, JavaScript Entity Framework.

## Achievements

Earned certificate on completion of tasks of 'One Hour of Code', 'Attending IEEE conference on meet'.

## Activities

Designing Flyer and Posters for FQSS Society at university, Designing visiting cards, promoting posters for boutique. Event and Partnership Coordinator at FPDC (FAST Parliamentary Debating Society).

## Interests

Travelling, Programming, Reading

