

# Qurrah Azam

AI/ML Engineer

A highly motivated and creative Computer Science student with a strong interest in developing intelligent, real-world solutions. Experienced in building end-to-end applications using AI, mobile technologies, and user-centric design principles. Skilled at transforming complex ideas into functional, efficient, and well-designed software products.



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## WORK EXPERIENCE

### AI/ML Developer - for a football game Browser Extension and Website futnext.com

UK

Role

- Designed and deployed AI/ML solutions for a browser extension and its companion website, including intelligent systems for automated team creation based on predefined rules.
- Implemented robust card recognition algorithms to ensure smooth and accurate functionality, delivering end-to-end solutions that improved user experience and system performance.

## PERSONAL PROJECTS

### Algorithmic Trading System Development Using Reinforcement Learning

- Built a custom trading simulation environment using OpenAI Gym and trained a reinforcement learning agent with Proximal Policy Optimization (PPO) to learn optimal buy, sell, and hold strategies from historical financial market data.

### TESPH (Prosperity Index)

- Analyzed and visualized national conditions across 255 countries using Pandas and NumPy, evaluating economic and environmental factors to provide actionable insights

### Cricket Batting Performance Analyzer (Final Year Project)

- Developed a mobile-based system using OpenCV and TensorFlow to classify cricket batting shots (e.g., pull, sweep, drive) from video input in real-time, achieving over 60% accuracy.
- Designed a custom outcome prediction module by analyzing bat-ball impact, shot angle, and player positioning to estimate results (e.g., 4, 6, or catch), and generated shot quality feedback using tailored evaluation metrics.

### Recipe Relay

- A React.js web app integrating The Meal DB API for recipe browsing.

## EDUCATION

### Bachelor of Computer Science Namal University Mianwali

11/2021 - Present

3.65

## SKILLS

Python

Machine Learning

C++

MERN Stack

Deep Learning

Communication

Git/GitHub

Open CV

mySQL

## CERTIFICATES

### AI For Everyone (02/2022 - 06/2022)

Introduction to how AI is used in businesses, ethics, and workflow.

### Machine Learning with Python (05/2022 - 08/2022)

→ Covered supervised/unsupervised learning, regression, clustering using scikit-learn.

### Intro to Machine Learning (04/2023 - 07/2023)

→ Hands-on projects with decision trees, model validation, and feature engineering.

### Neural Networks and Deep Learning (Course 1 of Deep Learning Specialization) (09/2023 - 01/2025)

→ Basics of deep learning, forward/backward propagation, vectorization.

### Full Stack Web Development with React, Node.js & MongoDB (03/2023 - 08/2023)

→ Developed full-stack apps using MERN, REST APIs, Git version control.

## INDEPENDENT WORK

### Fiverr (06/2023 - Present)

Freelance AI/ML Developer

### Namal Environmental Society (03/2022 - 01/2023)

General Secretary

## LANGUAGES

English

Full Professional Proficiency

Urdu

Full Professional Proficiency

## INTERESTS

Sports Analytics

Travelling