

# Muhammad Faizan Haq

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## CAREER OBJECTIVE

A 2nd year computer science undergraduate student with a passion for computer vision. Skilled in Python, OpenCV, TensorFlow, Torch and Yolo.

Seeking an internship to use and further polish my skills in computer vision and machine learning.

## EDUCATION

**Bachelor of Science in Computer Science**

Ghulam Ishaq Khan Institute

2021 - 2025

Current GPA: 3.43

## RELEVANT PROJECTS

**Pakistan stock market analysis and website**

Ongoing

- Models are created for stock value forecast.
- Semantic analysis.
- Front-end UI/UX done using HTML and CSS.
- Back-end done using JavaScript.

**Object detection and drone control**

Ongoing

- Object detection models are trained in yolo-v7.
- Drone control is done using dronekit library in python, by using MAV link protocol.
- This is done for competing in SUAS competition 2023, for Team Foxtrot.

**Tic-tac-toe playing AI**

April 2022

- ANN to train and play the game was developed from scratch in C++.

**Unsupervised learning model and visualization**

January 2023

- Correlation and covariance matrixes were done from scratch in Python.
- Clusters were generated to show data overlap.

## Technical (IT) Skills

**Machine Learning**

Numpy, Keras, Pandas, Torch, TensorFlow

**Object Detection**

Yolo v7, TensorFlow OD2

**Languages**

Python, C++, Kotlin, Java, JavaScript

**Database**

PostgreSQL, MySQL

**Research and planning**

Identifying problems, gathering information, developing solutions and calculating results

**Cloud based Technologies**

Google Cloud, Google Colab

## INTERESTS

- Artificial Intelligence
- Machine Learning
- Computer Vision
- Robotics
- Travelling
- Horticulture

## VOLUNTEER WORK

**Member - Team Foxtrot, GIK Institute**

Ongoing

Worked on automated flight of UAVs and aerial reconnaissance.

**Junior Network Administrator**

**Netronix - GIK Institute**

Ongoing

Maintenance of Residential area network inside GIK Institute.