

# Muhammad Waleed Zulfiqar

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## EDUCATION

### Institute of Space Technology

Bachelor of Science in Computer Engineering

Islamabad

Sep 2020 – July 2024

### 502 Model College

FSc ICS

Rawalpindi

Aug. 2018 – May 2020

## EXPERIENCE

### Internship

National Institute of electronics(NIE)

August 2023 – September 2023

Islamabad

- Internship was related to chip designing.
- chip designing with specific expertise in MIPS processor architecture.

## PROJECTS

### Machine Health Monitoring System | Python, Tensorflow, Keras

July 2023 – July 2024

- \* Designed a prototype for my Final Year Project. The purpose of it is to design a system which can analyze the sound of machines and then could detect anomalies in the machine.
- \* I trained a model in with 4 types of sounds. I labeled one sound as normal sound of machine and other 3 as anomalous sound in this way I get a system which could actively distinguish between closely related sounds on real time.
- \* The front end which I designed for evaluating my model is with using python's library streamlit
- \* Used library of python named SMTP with which I send response to authorized persons via email.

### Finger Counting App | Python, TensorFlow, Keras, OpenCv

February 2024 – March 2024

- \* Developed an app which could count the fingers when shown in front of camera
- \* The main library to handle the image type data is OpenCv
- \* Took the dataset from Kaggle. Then train the model on Google Colab.
- \* Got a model having an accuracy of about 90

### Attendance System | Python, TensorFlow, Keras, OpenCv

March 2024 – March 2024

- \* Developed an Attendance System with which whenever user shows his/her face in front of camera the attendance will be marked automatically .
- \* For this I take data of 40 students. Label the data according to the names of Students
- \* Whenever camera detects the face of that specific student the attendance will be marked.
- \* Got a model having an accuracy of about 85

## TECHNICAL SKILLS

**Languages:** Python, C/C++, SQL , HTML/CSS, PHP,Java

**Developer Tools:** Git, Google Cloud Platform,Google Colab, VS Code, Visual Studio, Android Studio

**Libraries:** NumPy, Matplotlib, SeaBorn, OpenCv, Librosa