

# Muhammad Faizan



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## Summary

Passionate in Deep Learning, Machine Learning, Computer Vision, and NLP. Currently a Machine Learning Engineer at Red Buffer, recognized with "Rising Star Award" (2022) and "Living by our Values Award" (2023). Seeking challenging roles to apply technical skills and drive innovation. Open to new opportunities for professional growth.

## Experience



### Jr. Machine Learning Engineer

Red Buffer

Dec 2021 - Present (1 year 9 months)

1. Nokia Robotic Process Automation: Automated network-related steps for Nokia using the Seeshell tool and Python programming language.
2. Signature Detection and Localization in Medical Documents: Utilized YOLOv5, an object detection algorithm, and OpenCV for image preprocessing to detect and localize signatures in medical documents.
3. Monitoring Social Media Activity: Designed and implemented a social media activity monitoring solution using OpenCV template matching, OpenCV Trackers and Python.
4. BCG Dashboard Designing: Created an informative and visually appealing dashboard for BCG, utilizing the Plotly library in Python. The dashboard provided insights into key performance metrics and trends.
5. Sport Analytics for Cricket: Worked on calculating the releasing speed of bowlers and detected logos/ads in cricket matches using state-of-the-art computer vision techniques.
6. NLP Code-Explainability: Worked on explaining input code using GPT models for enhanced code explainability.



### Machine Learning Intern

Red Buffer

Oct 2021 - Nov 2021 (2 months)

Robotic Process Automation: Designed and implemented a solution to automate various tasks related to the network field using Seeshell tool, Selenium, controlled and monitored using Python.



### Machine Learning Intern

CONVSYS (PVT) LTD

Jul 2020 - Sep 2020 (3 months)

Fashion Designing Project: Developed and executed a solution to classify and localize men and women's fashion accessories such as shoes, clothing, and others using YOLO object detection algorithm.

## Education



### **Sir Syed CASE Institute of Technology**

Bachelor's degree, Electrical Engineering

Sep 2017 - Jul 2021

Final Year Project:

Designed and developed a prototype device aimed at aiding individuals who have difficulty remembering the number of rakats and sequence of Namaz, the Muslim prayers.

Tools and Techniques: Raspberry Pi, IMU sensor, data collection, CNN model training for classification and deployment on raspberry pi

## Licenses & Certifications

 **Python Programming** - Kaggle

 **Intro to Programming** - Kaggle

 **Intro to Machine Learning** - Kaggle



**Build Basic Generative Adversarial Networks** - Coursera



**Deep Learning Specialization by Andrew Ng** - Coursera



**Advanced Computer Vision With Tensorflow by Laurence Moroney** - Coursera

## Skills

Python (Programming Language) • Deep Learning • Pytorch • TensorFlow • Computer Vision • Natural Language Processing (NLP) • Git • flask • DASH • Plotly

## Honors & Awards



**Math Hunt Competition** - IEEE

Sep 2018

Got 1st Position.



**Rising Star Award** - Red Buffer

Feb 2022

Awarded on best performance.



**Living By Our Values Award** - Red Buffer

Feb 2023