Muhammad Qasim

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EDUCATION

- **National University of Science and Technology (NUST)** — H-12, Islamabad
  Bachelor of Engineering in Software Engineering — *Nov. 2021 – Jun 2025*
  - Related Coursework: Machine Learning, Data Structures and Algorithms, Statistics, Linear Algebra, Calculus
  - Extracurricular: Commit 15 hours a week to NUST varsity basketball team

KEY PROJECTS

- **Virtual Try-On Model** (Python, HuggingFace)
  - Deployed the open source virtual try on model OOTDiffusion as a REST API to hugging face inference servers.

- **Driver Drowsiness Detection** (Python, Pytorch)
  - Implemented a custom solution for driver drowsiness detection by subsampling images with MTCNN and using an ensemble model for classification, achieving 98% accuracy on NTHUDDD test set.

- **Image Colourization With GANs** (Python, Pytorch)
  - Used the U-net architecture to colourize black and white images.
  - Implemented a custom pixel-wise accuracy metric and achieved good results on the CIFAR-10 dataset.

- **CS344 Final Project** (Google Cloud Platform, Node.js, Arduino)
  - Designed and Implemented a web application to capture video frames from the ESP-32 CAM and perform object detection on them using Google Cloud Platform.

SKILLS SUMMARY

- **Programming Languages** : Python
- **Deep Learning Technologies** : Pytorch
- **Cloud** : GCP
- **Version Control** : Git, GitHub

LEADERSHIP AND ACTIVITIES

- **Palestine Relief Fair**
  - Conducted a massive relief fair with various stalls to fundraise for the Palestinian cause.
  - Collected over Rs.1 lakh for Palestine in just one day.

- **Varsity Basketball**
  - Created Roots Basketball club.
  - Conducted regular practices and carried the team to its first varsity tournament placement.

COURSES

- **Machine Learning Specialization**: Coursera-Deep Learning.ai
- **Deep Learning Specialization**: Coursera-Deep Learning.ai

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