

# Mohsin Mehmood

<https://github.com/mohsinmahmood12>

Linkedin

## EDUCATION

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### Capital University of Science and Technology

Bachelor's of Science in Computer Science

Islamabad, Pakistan

Sep. 2019 – Aug.2023

## EXPERIENCE

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- **Horizon Tech Services** NSTP - Islamabad  
*Deep Learning Intern* Aug 2022 -
  - **Role:** I have been working on Speech Synthesis and Audio cloning for the past 3 months. I worked with a team of engineers to develop systems that could synthesize speech using text-to-speech engines. We also worked on vision transformers that could train neural networks to recognize objects in images.
- **Afiniti** Islamabad  
*Software Quality Assurance Intern* Aug 2020 - Sep 2020
  - **Role:** Identified and tracked defects with the AI Model and supported developers in resolving problems by completing additional tests. Work as a Software Quality Assurance intern to develop test cases that help the developers to analyze and improve the Software Quality
- **The Spark Foundation** Remote  
*Computer Vision and IoT Intern* Jan 2022 - Feb 2022
  - **Role:** I worked with a team of interns to develop a method for object detection using Yolo models. The goal of this project was to create a system that could detect objects in images, and identify them based on their color, shape, and size.
- **Volunteer Research Assistant** Remote  
*Volunteer* Feb 2021 - July 2021
  - **Automatic Speech Recognition:** My work was based on the Kaldi toolkit, which is a framework for building NLP systems. I worked on the ASR component of the Kaldi toolkit, which is used to recognize and label speech-based data
- **Lab Assistant** CUST - Islamabad  
*Assistant* October 2021 - Feb 2022
  - **Course:** Object Oriented Programming
  - **Responsibility:** Graded assignments, designed test problems, and mentored undergraduate students

## PROJECTS

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- **Text Classification:** Fine tune BERT for text classification using Tensorflow 2.0
- **Image Segmentation:** Worked on Kaggle dataset to find the nuclei in divergent images to advance medical discovery using U-net
- **Sentiment Analysis:** Develop a Machine Learning Algorithm using classification model for sentiment analysis on Twitter data
- **Edge Detection:** Implement Edge detection algorithm from scratch in MATLAB using different techniques e.g Canny,Prewitt methods and also used OpenCV
- **Tetris Game:** Developed a Tetris Game for semester project.Technologies: C++, SFML

## PROGRAMMING SKILLS

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- **Languages:** Python,C,C++,SQL,Matlab,Julia
- **Packages:** Pytorch, Tensorflow, Keras, Numpy, Pandas, OpenCV, Docker
- **Other Tools/Libraries:** Beautifulsoup, Scrappy, Git, Github, STL, Linux, Bash, Vim

## ONLINE COURSES

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Natural Language Processing (Coursera Specialization)

DeepLearning.AI TensorFlow Developer Professional Certificate

Become a C++ Developer ( LinkedIn Learning)

20+ Courses on Datacamp