

Talal Ahmed

Machine Learning Engineer

As a passionate Data Science and Machine Learning enthusiast, I am eager to apply my expertise in incorporating advanced machine learning algorithms into software products. I am seeking a dynamic and progressive organization where I can continue to grow my skills as a Machine Learning Engineer/Researcher and contribute to meaningful projects. With a track record of writing about cutting-edge ML concepts on Medium and implementing research papers from scratch on my GitHub, I am confident in my ability to make a significant impact in this field.

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Education

Bachelor of Software Engineering

2019-2022

University of Karachi

Professional Experience

Machine Learning Engineer

Dec 2022 - Present

Liquid Technologies

Responsibility: Working on computer vision application specifically on object detection and Deployment of ML models in real time application.

Research Assistant in Computer Vision

Aug 2022 - Oct 2022

University of Karachi

Responsibility: Worked with my Professor at University on Medical Images. My responsibility is to analyze images, build model and measure its performance.

Instructor of Machine Learning Bootcamp

Mar 2022 - April 2022

Google Developer Students Club - UoK

Personal Projects

Vehicle Detector and Counter

I developed a Vehicle counter using YOLOv5 and DeepSort for counting vehicles on road and their types

Sign Language Detector

Use TensorFlow API to develop my model on dataset which I prepared on my own images

Text Classification using BERT

Used BERT for learning the embeddings and then classify the documents with those embeddings

Text Summarization using Hugging Face

I worked on a project where I've used HuggingFace Transformer and summarize the Medical Research papers available on PubMed.

Text Classification using Sequential Model

Replicate a research paper for classification of medical papers of PubMed in which my model was identifying which type of label it should give to the paragraph like conclusion, abstract and Introduction

Neural Style Transfer

Use TensorFlow API for building my neural style transfer model and generates many images using different types of artistic images.

Intruder Detection using Contours

I've used Contours Detection and Background Subtraction technique to identify the intruder in my room using my mobile camera.

Number Plate Detection using EasyOCR

Build a number Plate Detector using MediaPipe then extract its text with EasyOCR

Eye Blink Counter

Developed an Eye Blink Counter using Mediapipe Face Mesh

Research Paper Replicated

Attention is All You Need

Implemented Transformer architecture from scratch in TensorFlow and Pytorch

ConvNet 2022

Implemented this paper using TensorFlow, paper came in April 2022

VGG16

Implemented Deep Convolutional Network paper in TensorFlow came in 2015 for Image Classification task

GANs

Implemented GANs paper in TensorFlow which generates images using Random Noise

Inception

This model was proposed for Image Classification tasks with some optimization techniques from computational perspective.

ResNet50

Proposed to overcome the problem of Vanishing Gradient using Skip Connections