

Mirza Zain Ali Nasir

ARTIFICIAL INTELLIGENCE ENGINEER

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Education

National University of Computer and Emerging Sciences (FAST-NU)

Lahore, Pakistan

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

June 2023

- Government MAO College, Lahore, Pakistan — 2017-2019

Skills

Languages Python, C++, Java, MySQL

Frameworks AWS Lambda, Docker, Flask, mlx, Tensorflow, Pytorch, Generative AI, Prompt Engineering, Pandas, Numpy

Projects

ProPainter

- A tool that can remove objects from a video on click.
- Click the object on the screen, then the script processes the video and in-paints the whole video. You can visit the ProPainter_pro repository to see the project in detail.

On-Click Segmentation

- Utilizing the SAM (Semantic Affordance Map) technique, I constructed a tool that facilitates on-click segmentation, allowing users to delineate and subsequently remove specific objects within an image. This tool empowers users with a straightforward and intuitive means to interactively enhance and modify visual content.
- Removing objects from the given image using in-painting technique. You can visit the On-Click Segmentation repository to see the project in detail.

Object Detection, Tracking, and Counting

- The YOLO (You Only Look Once) model is a crucial tool for developing real-time object tracking, detection, and counting applications. Its efficiency lies in its ability to process entire images in a single pass, offering a streamlined and responsive solution for diverse domains such as surveillance and autonomous vehicles.
- In addition, live captions of each frame are also displayed side by side. You can visit the Object Tracking, Counting, and Detection repository to see the project in detail.

Prompt Engineering

- An aiding agent is employed to assist coders in generating code docstrings, while concurrently, debuggers are deployed on AWS Lambda in tandem with the Docstring Agent. This integration streamlines the documentation process and enhances debugging capabilities for efficient and seamless development workflows.

LLM Detected Text

- In the age of LLM, one of the most important problems faced in academia is the generation of AI-based text. It is hard to detect AI-generated text, so Kaggle hosted a competition to detect the text.
- My maximum rank was 8 in this competition. You can visit the Leaderboard for more details.

Edge Dict

- We have implemented a cutting-edge Speech-to-Text tool utilizing Transducer Recurrent Neural Networks (RNN). This system excels in both live and recorded scenarios, seamlessly transcribing spoken words in real-time.

Flask API

- Create Flask API for remotely accessing the tool for doing tasks with ease and efficiency. In this way, we created the APIs in this task to add remotely.

Experience

Ekkel.AI

Lahore, Pakistan

ASSOCIATE ARTIFICIAL INTELLIGENCE ENGINEER

July 2023 - PRESENT

- In my role as an Associate Artificial Engineer at Ekkel.AI, I am part of an exceptional team. My primary responsibilities involve providing assistance to the team in AI projects, including tasks such as developing Flask APIs, creating AWS Lambda functions for seamless deployment, and devising effective solutions to address project challenges. I am dedicated to contributing to the success of the team and ensuring the smooth execution of AI initiatives..