Usama Iftikhar Butt

Machine learning Engineer

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Lahore

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As Machine learning professional, I bring expertise in Generative modeling in Computer Vision. My forte lies in fine-tuning existing machine learning tools such as Stable Diffusion, transformers and Yolo. I possess a proven track record of delivering innovative and efficient solutions.

WORK EXPERIENCE

Machine learning Engineer
Axcelerate.ai

05/2023 - Present *Lahore*

Projects

- Using cutting-edge models such as **Stable Diffusion**, **SAM** and **ControlNet**, a virtual renovation project aims to envision houses in innovative ways.
- A **zero-shot** object detection based system that makes use of **Grounding DINO** and **CLIP**.
- An object detection project focused on localizing features within images utilizes **YOLO** .

Machine learning Engineer
Vacon.ai

07/2022 - 05/2023 *Lahore*

Projects

- Facial recognition system uses **AWS Rekognition** to enhance facility access, streamlining identification for security.
- A **Haystack** model based document retrieval system efficiently finds relevant documents from large corpora in response to user queries.
- Utilizing machine learning techniques, to extract education, job experience and skills from resumes to identify top candidates efficiently for recruiters.

EDUCATION

MPhil Data Science
PUCIT

2021 - 2023 *CGPA: 4.00*

Courses

- Machine learning
- Deep learning
- Natural language processing
- Digital image processing
- Cloud computing

BS Computer Science
University of Gujrat

2017 - 2021 *CGPA: 3.20*

Courses

- Artificial Intelligence
- Data Mining
- Data Structures
- Database Systems
- Web System & Technology
- Object Oriented Programming

SKILLS

Python | PyTorch/Tensorflow | FastAPI | YOLO | Stable Diffusion | Grounding DINO | Control Net | CLIP | BERT | Transformers | MERN | React.js | NLTK | Docker | Nginx | PostgreSQL | MongoDB | Git/Github | Linux

PERSONAL PROJECTS

License plate super resolution
- This is my MPhil thesis. The objective is to utilize advanced techniques such as **diffusion models** to achieve **super-resolution** of license plate images that are initially blurry.

Synthetic image generation with GANs
- The objective is to generate synthetic facial images utilizing cutting-edge **Generative Adversarial Network (GAN)** technology.

Disease Identifier in Potato Plants
- Developed a state-of-the-art machine learning model utilizing **CNNs** to accurately detect diseases in plants.

ACHIEVEMENTS

4.00 CGPA
From PUCIT in MPhil

Most motivated employee (09/2022)
I was praised as most motivated employee of the company

INTERESTS

Open source contribution | Cyber Security | Lex Fridman podcast | DevOps | Programming