AKTHAR NAVEED

Machine Learning Engineer

With a robust background spanning over 3 years in the field of Machine Learning, I have honed my expertise in key areas such as Generative AI, LLM (Large Language Models), and Stable Diffusion. My professional journey reflects a deep commitment to staying at the forefront of technological advancements, contributing to innovative solutions, and leveraging cutting-edge methodologies in the realm of Artificial Intelligence.

Contact

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Address
Kozhikode, kerala, India

Education

AUGUST 2018-MARCH 2022

B.Tech computer science Engineering

Cochin university of science and technology, Cochin

- Graduated with First Class with Distinction
- CGPA: 8.5/10

Expertise

- Git
- Pytorch
- SQL
- docker
- kafka
- pyspark

Language

English

IELTS B2

Experience

AUGUST 2023 - Present

MINISTRY OF INTERIOR OMAN

Machine Learning Engineer

1. Real-time Election Analysis (Oman Shural Election - October 29, 2023):
   - Engineered a Real-time Election Analysis pipeline using Debezium Kafka Pyspark, providing live insights during the Oman Shural election.
   - Implemented Transformer prediction models for 63 wilayat, employing 4xA10 GPUs to forecast next-hour polling percentages, gender distribution, and age interval distribution.
   - Analyzed voting data from ministries over the past 6 years, extracting valuable insights.
   - On October 29, 2023, during the election, data was streamed using Kafka from the database connected via Debezium and processed using Pyspark. The processed data underwent forecasting for the upcoming polling count, gender distribution, and age distribution.

DECEMBER 2022 - AUGUST 2023

AICUBES

Machine Learning Engineer

https://www.upwork.com/agencies/1605218959246602240/

https://www.linkedin.com/in/akthar-naveed-921039201/

1. Stable Diffusion (Custom Children Reading Books):
   - Fine-tuned stable diffusion using Dream Booth, Dreamatist, and Textual Inversion techniques
   - Created an innovative application for customizing children's reading books, showcasing a fusion of creativity and AI.

2. VitonHD (Virtual Try-On):
   - Developed an advanced Virtual Try-On solution, leveraging machine learning models to generate realistic images of individuals donning specific clothing items.
   - Applied insights from the Dress Code research paper, translating cutting-edge research into practical implementations.

3. Video Segmentation:
   - Spearheaded the Video Segmentation project, enabling the precise removal of selected objects from video sequences through advanced object models
   - Implemented state-of-the-art algorithms, ensuring accurate and effective video segmentation.

Research Publication

ExoSGAN and ExoACGAN: Exoplanet Detection using Adversarial Training Algorithms

https://arxiv.org/abs/2207.09665