Muhammad Hammad Khalid

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Experience

The Game Company | Islamabad
AI/ML Engineer | 09/2023 - Present

- Part of the team leading the development and integration of AI and machine learning solutions into various sections of the gaming platform.
- Collaborate with cross-functional teams, including game developers, data scientists, and UX/UI designers, to design and implement AI-driven features and improvements.
- Conduct research and stay updated on the latest advancements in AI and machine learning to drive innovation in the gaming industry

Education

COMSATS University, Islamabad
BS Computer Science | 06/2023

Skills

Deep Learning, Machine Learning, NLP, Computer Vision, MLOps

Projects

Fire Detection and Localization

- The project's objective is to create a system capable of replacing conventional fire detection systems that use temperature sensors.
- This system will detect fire better than the other systems and will be much cheaper.
- Yolo_v5 is used as a model for the detection of fire.
- The desktop application is built on Python for surveillance. An alert will be generated whenever the camera detects the fire

Emotional Voice Conversion

- Designed a neural network architecture, encompassing key components like Emotion Encoder, Emotion Classifier, Generator, Discriminator, and Style Encoder.
- Successfully trained the model to convert speech samples into various emotional styles.
- Employed advanced training methods, including learning rate scheduling, early stopping, and regularization.

Dental Disease Detection

- Developed a dental disease detection project using YOLO (You Only Look Once) object detection model.
- Manually labeled a diverse dataset of dental images, encompassing dental caries, periodontal diseases, and dental cysts using label.img.
- Leveraged the Roboflow platform to preprocess and augment the dataset, enhancing model performance.
- Trained the YOLO model to accurately identify and localize dental diseases within images.

Certificates

Unsupervised Learning, Recommenders, Reinforcement Learning., Generative AI with Large Language Models. , Neural Networks and Deep Learning.