Prasuk Jain

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PROJECTS

Custom Object Detection and Identification using Deep learning   *Apr 2023 – May 2023*

- Developed a custom object detection web app using YOLO v5.
- Utilized Streamlit framework for building the web app.
- Trained the YOLO v5 model on custom object classes.
- Achieved accurate and efficient object detection results.
- Deployed the web app for seamless user interaction.
- Created an intuitive user interface using Streamlit for easy navigation.
- Collaborated with a team to ensure smooth integration and deployment.
- Demonstrated expertise in Python, YOLO v5, and object detection techniques.
- Designed a scalable and reliable web app for real-time object detection.
- Conducted thorough testing and refinement to ensure optimal performance.

MagicFace Webapp   *May 2023 – Present*

- Independently developed "Magicface" project using Flask framework and machine learning algorithms.
- Implemented facial analysis features including gender detection, facial expression recognition, and age estimation.
- Trained and deployed deep learning models for accurate gender classification based on facial features.
- Utilized computer vision techniques to detect and classify various facial expressions such as happiness, sadness, anger, surprise, etc.
- Developed an age estimation module using machine learning algorithms to estimate the age range of individuals in images.
- Integrated real-time filter application functionality for image enhancement and modification.(Ongoing).

Face Mask Removal Using Cycle GAN   *June 2023 – Present*

- Currently developing a face mask removal project using Cycle GAN, aiming to remove face masks from images for improved facial recognition accuracy
- Implementing Cycle GAN architecture to train models capable of generating realistic face images by removing masks.
- Independently developing the project, including data collection, model training, and evaluation, with the goal of creating a reliable face mask removal solution.

EDUCATION

Madhav Institute of Technology and Science, Gwalior   *2020-2024*
Bachelor of Technology, Artificial Intelligence and Robotics
Cumulative GPA: 3.46/4.0
Core Team Member of Robotics Club and Coding Club

ADDITIONAL

Technical: Python, Postgre SQL, Machine Learning, Scikit-learn, Scikit-Image, OpenCV, MLOps, Numpy, Pandas, Matplotlib, Seaborn, Flask, Streamlit, Tensorflow 2,Generative Adversial Network.
Languages: Fluent in English.
Extra : Participated in Wittyhacks 3.0 organized by Datacode and Major League Hacking (MLH)
Certifications & Training:
- Machine Learning for Earth Sciences by NPTEL
- Image Processing with Python by Datacamp
- Generative AI by Udemy
- Postgre SQL by Datacamp