Aditya Maniar

Phone: (732)-763-2085
Address: 15 Manor Ave, Harrison, NJ, 07029
Email: aditya.202@gmail.com
Linkedin: linkedin.com/in/aditya-maniar-a14a39149

Motivated individual pursuing Masters in Computer Science degree with experience collaborating with teammates to create projects and also the ability to work independently. Well-versed in programming languages with a firm understanding of algorithms and coding, with a keen interest in subjects like Machine Learning, Deep Learning, and Data Analysis. Successful in quickly building skills, self-teaching, acquiring new knowledge, and finding quick solutions to problems.

Education

Masters in Computer Science,
New Jersey Institute of Technology, Newark — Aug 2017-May 2021

Bachelors of Engineering in Electronics Engineering,
University of Mumbai, Mumbai — Sept 2021-May 2023

Experience

Internship Trainee – Rashtriya Chemical and Fertilizers, Mumbai — Dec 2019-Jan 2020

- Involved with various controllers and algorithms for the efficient working of conveyor belts needed for the packing of the chemicals and worked closely with highly skilled team of employees, encouraging development of communication skills

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Projects

1. **Crowd counting and Social-Distance Detection using Image processing**:
   - Project designed to ensure safety protocols are followed when in public places like Parks, Museums, Libraries etc, during the COVID-19 pandemic. It is a Computer Vision based project which makes use of OpenCV for Image Processing (Object Detection, Object Classification, and Distance Calculation), and Raspberry Pi 4 as the processor.
2. **Authenticated Message Transfer using Apache MQ with Java:**
   - A project based on the Apache MQ (AMQ) platform. This project was designed to send messages from one machine to the other with an intermediate broker. Message is only received if it is sent with a proper authentication key from the sender's side. This is an useful application for a communication channel that involves a possibility of false/fake messages from an unintended sender for example in the Navy, Military, etc.
3. **Real-time OCR and Text Detection with Tensorflow, OpenCV and Tesseract:**
   - Project to develop a program in Python that is able to extract text from images and video using Tensorflow, OpenCV, and Tesseract. Uses the basics of image extraction and augmentation with OpenCV and explores OpenCVs basic commands. Trained Tensorflow to identify a specific ROI (region of interest) in an image, and extract and augment the ROI using OpenCV. Then integrate Tesseract's text recognition functionality into the program, and sent the final enhanced image containing text to Tesseract for extraction of text data using OCR.
4. **Web Interface using Flask for Facial Expression Recognition Model:**
   - A project to deploy Tensorflow Models using Tensorflow Serving and Docker, and create a simple web application using Flask, which serves as an interface to get predictions from the served Tensorflow model on the webpage.

Skills and Interests

- Python
- Java
- Anaconda
- Pycharm
- Machine Learning
- Deep Learning
- Tensorflow