SAI MOHAN DALLI

ARTIFICIAL INTELLIGENCE ENGINEER

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ABOUT ME

Pursuing Master's in Engineering, Over time, I have found my interest in the field of Artificial Intelligence and started learning by working on interesting projects. I am looking for more challenging projects in comapnies to kick start my career and follow my dream.

PROFESSIONAL SKILLS

PYTHON
OpenCV
PyTorch
Tensor Flow (Keras)
Scikit-Learn
Pandas
Numpy
Matplotlib
Plotly
Streamlit
Spacy
Transformers
HTML/ CSS
Flask
MATLAB

PERSONAL SKILLS

Pair Programming
Team Player
Code Review
Problem Solving

LANGUAGES

English - C1
German - A2
Hindi - B2
Telugu - Native

MY INTERESTS

Playing Cricket and Volleyball
Cooking
Listening Music
Swimming

PROJECTS

AI ON TOLL PLAZA

Technologies use: OpenCV, YOLO, Tesseract (OCR), Python, SQL, and Google Colab.

- The camera captures the frontal picture of the car and the YOLO detects the number plate.
- It draws a bounding box around the number plate using OpenCV and crops the image.
- The text is extracted from the cropped image using Tesseract and passed to the database.
- Tollgate opens by automatic if the number plate is active in the database.

FACE MASK DETECTION

Technologies used: PyTorch, Fastai, OpenCV, Python, Numpy, Cuda, and Google Colab.

- Prepared a custom dataset by labeling the images of the mask, no mask, and bad mask.
- Built a pre-trained ResNet model on PyTorch and Fastai to predict the images.
- Applied a bounding box that captures the face using Haar cascades classifiers.
- Detected faces with masks, no masks, and bad masks on the webcam and videos.

WEB SCRAPPING GOODREADS 1000 BEST BOOKS

Technologies used: Python, Pandas, Numpy, Beautiful Soup, Streamlit, Matplotlib and Plotly.

- Web Scrapped the top 1000 best books from Goodreads Website.
- Pre-processed the data for data evaluation and data visualisation.
- Deployed the complete data report with data interpretation on webpage.

JANE STREET MARKET PREDICTION

Technologies used: Python, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn and Plotly.

- Imported the data and discovered the patterns by doing exploratory data analysis (EDA).
- Applied feature engineering techniques to extract new features from the data.
- Fit the Machine Learning models to predict the data and also to calculate the accuracy.

ACADEMIC BACKGROUND

STRIVE SCHOOL, GERMANY

AI Engineering for Data Science (12/2020 - 06/2021)

- Focused on Machine Learning, Deep Learning, Computer Vision, NLP, and Web Scraping.
- Acquired advanced skills in Python and its associated libraries.
- Knowledge sharing through Pair Programming and self-assessment on individual projects.

LEIBNIZ UNIVERSITY, GERMANY

Masters in Computational Methods in Engineering (05/2018 - Present)

- Focused on Fluid Mechanics, Composite Materials, FEM, Dynamics, and Vibrations.
- Fluid flow analysis using Matlab.
- Material Simulation of composite materials using ANSYS.