Avinash Nair

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SUMMARY

An aspiring data scientist with a bachelor's degree in computer science. Currently working on data science projects with keen interest of exploring new technologies for solving business problems.

CAPSTONE PROJECTS

Traffic Sign Detection System (Team Size – 3)

- **Objective** - To alert and assist the driver of the vehicle for intended nature of the road ahead and identification of traffic sign boards on the road
- **Skills**-Deep Learning (Object Detection), Open Cv, Computer vision, Flask
- **Data**- Dataset consist of 6800+ images for training with 15 classes
- **Future Scope**: Notifying Traffic signs thorough voice based on driver's preference and adding more images for different countries to make it universally accepted.

PORTFOLIO PROJECTS

Used Car Price Predictor Using Flask & Heroku
- The purpose of this analysis is to build a prediction model and web app to predict the prices of the used cars for different brands
- The dataset contains 3700 car details for over 40 different regions scrapped from Car Trade using Scrapy
- Machine Learning Algorithm used to do the predication Huber Regression, Random Forest Regressor

Hotel Review Sentiment Analysis with Flask & Heroku
- The purpose of this analysis is to build a model and a web app which classifies the review based on the aspects
- Dataset contains 48000 reviews from 8 hotels of the Chennai
- Machine Learning Algorithm used Decision Tree, XGBoost, Naïve Bayes

Movie Recommendation Chabot with AWS Lambda and Vercel
- A Retrieval based Chabot which uses cosine similarity algorithm to recommend the movies
- Dataset used for training the recommender system consists of 45,000 movies. 26 million ratings from over 270,000 users

Hard-Hat Construction Helmet Detection
- A web app which detects the helmets in a designated area and this can be used as an alert system when the employee has been detecting not wearing a helmet.
- Used pertained model YOLOv5 along with 8000 images with 3 classes

SKILLS

PROGRAMMING LANGUAGES – Python (Numpy, Pandas, Seaborn, Matplolib, ScikitLearn,Tesorflow), SQL

MACHINE LEARNING – Regression, Classification, Tree-Based methods, Ensemble technique, Deep learning

FRAMEWORKS & TOOLS- Flask, Tkinter, Streamlit, AWS, Docker, Git, Tableau.

EXCELLENT INTERPERSONAL SKILLS- Willing to help and ability to build relationships

EDUCATION

POST GRADUATE IN DATA SCIENCE, BUSINESS ANALYTICS AND BIG DATA

Aegis School of Data Science, Cyber Security, and Telecommunication, Mumbai *(2020 –2021)*

BACHELORS IN COMPUTER SCIENCE

Sri Ramakrishna College of Arts and Science, Coimbatore *(2017 –2020)*