OMKAR BARGE

DATA ANALYST / DATA SCIENTIST

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OBJECTIVE

Seeking a position that allows me to apply my strong analytical and problem-solving skills, along with my passion for continuous learning, to make a positive impact and contribute to the overall goals of the organization.

TECHNICAL SKILLS

Tools : SQL, Python, Anaconda, Scikit-Learn, Numpy, Pandas, Matplotlib, Seaborn

Technologies : EDA, Web Scraping, Machine Learning, HTML, CSS, Bootstrap

Skills : Statistics

WORK EXPERIENCE

SOFTWARE DEVELOPER *,ORNET TECHNOLOGIES PVT LTD*

DEC 2022 - JUN 2023

- Created and implemented Node.js Database APIs, improving execution speed and enhancing functionality.
- Developed a Flask API for efficient image processing tasks, generating PDFs and processing profile images.
- Deployed the API on multiple servers for continuous availability using the nssm tool.
- Developed a feature-rich Flask web application for diverse data operations, including Excel to Database, Database to Database, and Excel to Excel connections.
- Built a Flask-based web application to transliterate names from English to Marathi and store the results in the database.

DATA SCIENTIST INTERN *,INNOMATICS RESEARCH LABS*

JULY 2022 - OCT 2022

- Worked on machine learning techniques and recent researches with weekly assignment meet and lectures.
- Developed 3 projects that gave me hands-on experience in Data Analysis, ML, MLOps(MLFlow & Prefect), Streamlit, Pipeline Orchestration, NLP, Version Control, Heroku
  - - Diamond Price Prediction App (Deployed on Heroku)
  - - Open Pub Web App
  - - Quora Question Pair Similarity
- Worked on **5+ mini projects** using Python, Flask, Regex
  - -Functionality Clone of regex101.com (Flask)
  - -URL Shortner Application (Flask) etc
- Learned the Industrial Demonstrations to deploy the models
- Got selected from batch of 200+ teammates in top 50 for Final Project
- Received **Letter of Recommendation** from Innomatics Research Labs

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EDUCATION

Master of Science in IT *,Saket College - Mumbai University* JULY 2018 - APRIL 2020

Bachelor of Science in IT *,B. K. Birla College - Mumbai University* JUNE 2014 - MAR 2018

CERTIFICATIONS

- **Data Science with Python Career Program** by Testbook Skill Academy , Dec 2022
- **Python Training + Internship** by Testbook Skill Academy , Mar 2022
- **Data analysis with Python: Zero to Pandas** by Jovian , Jan 2022
- **Web scrapping & Automation using Python** Bootcamp by ShapeAI , Oct 2021

ACHIEVEMENTS

- **Ranked 1st in Data Science Hackathon** conducted by Testbook
- **Python Golden star** on hackerRank
- **Core Member of Inter-College Event – " Pravah 2017-18 "** responsible for working with various teams for promotion & execution of event.

PROJECTS

1. Quora Question Pair Similarity

1.1 Collaborating with a team of five members, I contributed to a project that involved comprehensive data cleaning, including handling null values and outliers.
1.2 Additionally, I utilized data visualization techniques to provide meaningful insights from the dataset. I also performed text preprocessing tasks such as lemmatization, stemming, and tokenization to enhance the quality of textual data.
1.3 Furthermore, I applied embedding techniques such as Bag-of-Words (BOW), TF-IDF, and Word2Vec to capture semantic relationships in the text.
1.4 My major focus was on model training, implementing model tracking using MLFlow, and orchestrating the workflow to ensure efficient and effective execution of the project.

Technologies : Machine Learning, NLP, MLOps
https://github.com/OmkarBarge/Quora-Question-Pair-Similarity

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2. Open Pub Web Application

2.1 Google Map is down because of some issue, so main aim of this application was to provide a convenient way for users to explore pub locations and find nearby pubs for a fun and enjoyable experience.
2.2 Preprocessed the dataset in Jupyter Notebook, handled null values in the latitude and longitude columns by removing the corresponding rows.
2.3 Created WebApp using Streamlit Framework which allowed for seamless creation of multi-page functionality.
The application included three main pages, each serving a specific purpose.
2.3.1 Home Page: This page welcomed users and provided basic information and statistics about the dataset. It offered a brief overview of the pub data, including the number of pubs available and any interesting insights derived from the dataset.
2.3.2 Pub Locations: On this page, users could input a postal code or local authority to view all the pubs in the chosen area. The application used the latitude and longitude information from the dataset to display the pub locations on a map, providing a visual representation of the pub distribution in the specified region.
2.3.3 Find the Nearest Pub: This page allowed users to enter their own latitude and longitude coordinates. Using the Euclidean distance calculation, the application determined the five nearest pubs to the user's location. These nearest pubs were then displayed on the map, enabling users to easily identify and visit the closest options.

Technologies : Python, Streamlit
https://github.com/OmkarBarge/Open-Pub-Web-Application-using-Streamlit

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3. Used Car Price Prediction

3.1 The application aimed to provide users with an accurate estimation of a car's market value based on various features and attributes.
3.2 The Used Car Price Prediction Application involved several key steps and techniques like Data Cleaning, Data Visualization, Model Training, Streamlit Application.

Technologies : Python, Machine Learning, Streamlit
https://github.com/OmkarBarge/Data-Science-Capstone-Project

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4. Diamond Price Prediction

4.1 Developed a web application using Streamlit to predict diamond prices based on carat, cut, color, clarity level, depth, table, length, and width features.
4.2 Utilized a Random Forest model, trained on a comprehensive dataset, to provide accurate price estimates for users.
4.3 MLflow for tracking and monitoring model performance, ensuring reliable analysis.
4.4 Employed Prefect as an ML Pipeline Orchestration tool to manage the workflow and pipeline infrastructure, transforming Jupyter Notebook code into production-ready Python scripts.

Technologies : Python, Machine Learning, Streamlit, Prefect, MLFlow
https://github.com/OmkarBarge/Diamond-Price-Prediction-Application-using-Streamlit-RF