Maroti Shelke

Data Scientist

Experienced Data Scientist adept in predictive analytics and model development, driven to deliver insights and foster data-driven decisions for business growth.

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EDUCATION

B.E. Computer Engineering (Honors: Data Science)

JSPM's Rajarshi Shahu College of Engineering

08/2018 - 08/2022 *PUNE, INDIA*

WORK EXPERIENCE

Professional I – Data Scientist

Capgemini

10/2023 - Present *PUNE, INDIA*

Achievements/Tasks

- Developed machine learning models to predict truck refueling time and remaining refuel, improving logistics efficiency.
- Utilized advanced feature engineering techniques to enhance model accuracy.
- Implemented the kernel density algorithm for precise estimations.
- Created visualizations to optimize data interpretation and facilitate decision-making.
- Contributed expertise in machine learning, feature engineering, and data visualization to streamline logistics operations

Senior Analyst

Capgemini

08/2022 - 10/2023 *PUNE, INDIA*

Achievements/Tasks

- Developed a Web application for Preliminary Analysis, incorporating features for generating statistical insights, correlation matrices, and dynamic charts including Time Series, Box Plot, PDF Plot, and Percentile Plot for comprehensive data analysis
- Predicted mining asset health by forecasting machine behavior, preemptively informing clients about upcoming failures to reduce shutdowns and production losses
- Utilized a variety of machine learning models, data preprocessing techniques, and feature engineering to enhance predictive accuracy
- Applied clustering analysis, statistical modeling, and business rules to drive data-driven decisions and optimize operational efficiency
- Collaborated with stakeholders to understand business requirements and tailored data analysis tools to meet specific needs, fostering effective decision-making processes

SKILLS

Programming Language: Python, R, SQL, NoSQL

Database: MySQL, MongoDB

Web Development: Django, Flask, JavaScript, CSS, HTML

Cloud Platform: Microsoft Azure, AWS

Machine Learning and Deep Learning: Supervised Algorithms, Unsupervised Algorithms, ANN, CNN, EDA, Data Visualization, Feature Engineering, Feature Selection and Extraction, Time Series, Modular Programming

MLOpS: MLflow, ci/cd, Jenkins, Docker

Git

Excel

PERSONAL PROJECTS

Twitter Sentiment Analysis

- Implemented a sentiment analysis system to analyze sentiments of the tweets.
- The analysis focuses on evaluating the subjectivity and polarity of tweets.
- Visual representation of results is accomplished through Word Clouds, Plots, Histograms, and Pie Charts
- The implementation integrates Tweepy for connecting to Twitter API, and utilizes Text Blob, NumPy, Pandas, Matplotlib for efficient processing and visualization tasks

YouTube Adview Prediction

- Developed predictive model using regression for estimating YouTube adviews.
- Conducted feature engineering and model fine-tuning for optimal performance
- Result: Delivered a valuable tool for advertisers to optimize content strategy

Karen Assistant

- Developed a sophisticated voice-activated AI with 30+ functions utilizing NLP and Python
- Enhanced user accessibility by integrating mobile input through a dedicated app
- Implemented dynamic user control with a live GUI using PyAutoGUI for an interactive interface

AWARDS

Performance Driver Award

Recipient of Performance Driver Award for rapid acquisition of predictive analytics skills, exceptional contribution to database configuration automation tool development, and commendable dedication. Acknowledged for ongoing work on ML-based forecasting algorithm for dust collector system.