Swati Sharma

Data Scientist

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Github:
https://github.com/ssharma2323/Linear_Regression_End_To_End_Project

Data science enthusiast with a strong background in automation and a passion for uncovering insights from data. Experienced in utilizing various data analysis tools and continuously expanding knowledge in the field of machine learning. Seeking an opportunity to apply problem-solving skills and Python expertise to extract the compelling narratives hidden within data.

Key Skills

- Machine Learning
- Python
- SQL
- Predictive Modelling
- Pandas
- Seaborn
- NLP
- Web Scrapping
- VS Code
- Logistic Regression
- Power BI
- R Markdown

Professional Experience

Food Delivery Time Prediction
Machine Learning End to End Model Building | May 2023 - July 2023

- Developed a robust model for predicting food delivery time on Zomato.
- Conducted exploratory data analysis (EDA) and utilized visualizations for insights.
- Performed feature engineering, including distance calculation and categorical feature encoding.
- Cleaned and processed data to ensure reliability.
- Built a data ingestion pipeline to read and process the data, resulting in train and test files with an added distance column.
- Implemented a data transformation pipeline, including imputing missing values, ordinal encoding, one-hot encoding, and feature scaling. This pipeline generated a Preprocessor.pkl file for efficient data processing.
- Evaluated various models and identified Random Forest as the most accurate predictor for food delivery time.
- Developed a training and prediction pipeline within VS Code, allowing for seamless execution and reproducibility of the model.
- Saved the trained Random Forest model as a mode.pkl file for easy access and future use.
- Deployed the model on the AWS platform, enabling real-time prediction of food delivery time.

Senior Associate (Model Evaluation)
AXA XL | October 2021 - Present

- Leading a key automation project for the team, leveraging tools like R markdown and Power BI to automate day-to-day tasks and improve efficiency.
- Evaluating Catastrophe Models from different vendors to identify the one which most accurately represents the industrial losses.
- Assessing models on various sections such as Exposure, Hazard, Vulnerability, and loss Calibration.
- Verifying stated assumption of the vendors about the models such as testing the hypothesis if the model is using Poisson distribution or not.
- Sharing findings with upper management along with suggested Cat Modeling Deficiency factors to improve model representation.
- Delivering findings through interactive Markdown-based reports, allowing users to explore dynamic maps and easily access different options.

Risk Analyst
RMS | December 2019 - October 2021

- Conduct pre-risk pricing, regulatory reporting, and event response reporting tasks.
- Develop an understanding of data pertaining to various insurance structures.
- Utilize client requirements to model different policy structures and estimate catastrophe losses on portfolios.
- Manage transitions of new projects and re-develop existing projects.
- Generate event loss tables and EP curves to provide financial perspectives.
- Calculate return period losses and average annual loss figures.

- Provide pricing support to underwriters and assist clients in quantifying property and casualty risks.Pre-Risk Pricing, Regulatory Reporting and Event Response Reporting

Education

MA Economics (Specialization in Applied Quantitative Finance)
Madras School of Economics, Chennai | May 2017 - May 2019

BA Economics Honours
Maharishi Dayanand University | May 2014 - May 2017