SAGARIKA SARDESAI

| LinkedIn: /sagarikasardesai | Tableau: /sagarikasardesai | GitHub: /sagarikasardesai | sagarikasardesai13@gmail.com | 6199537007 | Open to Relocation | Visa Sponsorship Required

EDUCATION

MS, Data Science San Diego, CA

UC San Diego, CGPA 3.89

Btech, Computer Science and Engineering Vellore, India

Vellore Institute of Technology, CGPA 8.61

Jul 2016 - Jun 2020

TECHNICAL SKILLS

Languages: SQL, Python, R, Cypher, PySpark, SparkSQL

Libraries: Pandas, NumPy, Matplotlib, Seaborn, SciPy, Statsmodels, Scikit-learn

Data Vis and BI Tools: Tableau, Qlik Sense, Advanced Excel (Advanced Formulas, XLOOKUP, VLOOKUP, Pivot Tables, Stat tools,

Macros, Charts)

Cloud Technologies: AWS (Redshift, Glue, S3)

Statistical Methods: ANOVA, Hypothesis Testing (A/B testing), T-Statistics, Regression Analysis

ML Algorithms: Regression (Linear & Logistic), Classification, Clustering (KMeans & Hierarchal), XGBoost, Random Forest, Deci-

sion Trees, SVM, PCA, Neural Networks

Other: Jupyter Notebook, Google Colab, Anaconda, HP ALM, Git, Jira, Confluence

EXPERIENCE

Data Science Research Assistant

UC San Diego

May 2023 - Nov 2023

San Diego, CA

Sep 2022 - Apr 2024

- Derived valuable insights into consumer attitudes and decision-making regarding End-of-life choices.
- Ensured data accuracy by 5% through cleaning, exploration, and visualization in the Data Quality Report, revealing significant patterns and trends.
- Utilized exploratory data analysis, statistical analysis, and NLP techniques such as VADER and RoBERTa to measure sentiments and derive meaningful conclusions about consumer behavior.

Business Analyst Pune, India

Credit Suisse May 2021 - Jun 2022

- Identified root causes, patterns, and trends by conducting 300+ Test Trades, resulting in a 70% decrease in defects and unveiling new feature development areas.
- Designed Key Performance Indicators (KPIs) by analyzing over 80,000 production and test data records using advanced SQL queries sourced from company databases and software.
- Created 300+ functional and user acceptance test (UAT) scenarios for B2B applications utilizing KPIs and Advanced Excel tools.
- Performed ad-hoc analysis of test results data, delivering actionable insights to cross-functional teams.
- Led defect management processes to streamline the trade lifecycle.

PERSONAL PROJECTS

Predictive Analysis for Detecting Credit Card Transaction Fraud

- Utilized supervised machine learning to detect credit card fraud, resulting in estimated savings of 21M USD with a 3% False Discovery Rate.
- Analyzed 90,000+ credit card transactions, conducting data exploration, cleaning, and visualization to uncover insights.
- Engineered over 1000 variables from existing dataset fields for comprehensive analysis.
- Employed the Kolmogorov-Smirnov test to feature select 20-25 relevant variables reducing training time by 30%, improving model accuracy and fraud detection capabilities.

Covid19 Data exploration and Visualization

- Utilized SQL to analyze the OWID Covid-19 Dataset of 85,000+ rows, identifying patterns in global infection and mortality counts, country-specific statistics, and regional peak counts.
- Forecasted infection numbers for highly affected countries and presented insights visually with Tableau to aid decision-making.

NY Property Fraud Detection (Unsupervised Anomaly Detection)

- Detected potential property tax fraud in 10,000+ NY property records using statistical analysis and unsupervised ML.
- Uncovered insights through data exploration, cleaning, and visualization.
- Feature engineered 59 z-scaled variables using statistical analysis to enhance fraud detection accuracy.
- Employed heatmaps to visualize variables influencing high fraud scores, gaining deeper insights into fraud patterns.

Investment Scope of SBIR Awarded Companies

- Conducted in-depth analysis of the SBIR Awarded Companies containing 165,000+ records using Python and SQL, revealing patterns in industry sectors and year-wise award amounts across US agencies and branches.
- Improved data accuracy by 20% by cleaning methods including data type adjustments, keyword extraction, and imputation.
- Established relationships between US departments and agencies using Neo4j graphs, enhancing investment analysis context.
- Web scraped recent news about relevant companies, stored in MongoDB for further reference.