SAGARIKA SARDESAI

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EDUCATION

MS, Data Science   **San Diego, CA**
UC San Diego, CGPA 3.90   *Sep 2022 - Jun 2024*
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
Databases: MySQL, PostgreSQL, Neo4j, MongoDB.
Data Viz and BI Tools: Tableau, Qlik Sense, Advanced Excel (Formulae, XLOOKUP, VLOOKUP, Pivot Tables, Stat tools, Charts)
Cloud Technologies: AWS (Redshift, Glue, S3)
Other: Jupyter Notebook, Google Colab, Anaconda, Git (Version Control), Jira, Confluence

EXPERIENCE

Senior Operations Analyst   **Mountain View, CA**
Athelas   *Jul 2024 - Aug 2024*

- Utilized SQL, JavaScript, & Retool to maintain & build dynamic internal dashboards that integrated real-time data in JSON format.
- Monitored KPIs that tracked live medical claim submissions, denials, rejections, and reconciliations for 10+ medical facilities across 50 US states.
- Conducted gap analysis and root cause analysis to streamline revenue cycle management for 10+ medical facilities.

Data Science Research Assistant   **San Diego, CA**
UC San Diego   *May 2023 - Nov 2023*

- Utilized exploratory data analysis, statistical analysis, and NLP techniques (nltk, transformers) such as VADER and RoBERTa (LLM) to measure sentiments and derive meaningful conclusions about consumer behavior.
- Ensured data accuracy by 5% through cleaning, exploration (pandas, numpy), and visualization (matplotlib, seaborn) revealing significant patterns and trends.
- Derived valuable insights into consumer attitudes and decision-making regarding End-of-life choices.

Business Analyst   **Pune, India**
Credit Suisse   *May 2021 - Jun 2022*

- Analyzed production and test data sourced from company databases and software using SQL and Advanced Excel for company tooling defect mitigation.
- Performed ad-hoc analysis to support business strategy, reported & delivered actionable insights to cross-functional teams.
- Identified root causes, patterns, and trends from data analysis results, resulting in a 70% decrease in defects and unveiling of new product development areas.
- Led defect management processes to streamline Investment Trade Settlements lifecycle and business processes.

PERSONAL PROJECTS

Investment Scope of SBIR Awarded Companies

- Conducted in-depth analysis of the SBIR Awarded Companies containing 165,000+ records using Python and PostgreSQL, 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 Cypher (Neo4j) graphs, to enhance analysis context.
- Web scraped (Beautify Soup, Selenium Webdriver) recent news (Python data pipeline for ETL) about relevant companies, stored in MongoDB for further reference.

Covid19 Data exploration and Visualization

- Utilized PostgreSQL to analyze the OWID Covid-19 Dataset 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.

Predictive Analysis for Detecting Credit Card Transaction Fraud

- Utilized supervised machine learning methods like Logistic Regression, Decision Trees, Random Forest, LGBM, LGBM with SMOTE, MLP classifier, Gradient Boosting Classifier, CatBoost, XGBoost, SVM to detect credit card fraud, with an estimated savings of 21M USD.
- Analyzed, cleaned & explored credit card transactions data, & visualization(Matplotlib, Seaborn) to uncover insights.
- Feature engineered (pandas, numpy, scikit-learn) and feature selected (mlxtend, lightgbm) variables using Kolmogorov-Smirnov statistical test, reducing training time by 30%.

Document Q&A Chatbot

- Orchestrated a PDF Document Q&A Chatbot Application using Langchain, Groq API, & Llama3 LLM model.
- Designed a user-friendly interface for the tool using Streamlit for a chatbot-like interaction.