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, Javascript
Databases: MySQL, PostgreSQL, Neo4j, MongoDB
Data Viz & BI Tools: Tableau, Qlik Sense, Retool, Advanced Excel (Formulae, XLOOKUP, VLOOKUP, Pivot Tables, Stat tools, Charts)
Cloud Technologies: AWS (Redshift, Glue, S3)
Project Management: Git (Version Control), Jira, Confluence, HP-ALM

EXPERIENCE

Senior Operations Analyst — **Mountain View, CA**
Athelas — *Jul 2024 - Aug 2024*
- Led strategic initiatives to optimize revenue cycle management for 10+ medical facilities across 50 US states, to streamline medical claim submissions, denials, & reconciliations.
- Utilized SQL & Retool to design and maintain internal dashboards integrating real-time data (JSON format), enabling data-driven decision-making for leadership, account managers & customer success teams.
- Conducted root cause and gap analysis to identify and address operational inefficiencies, improving overall system performance.

Data Science Research Assistant — **San Diego, CA**
UC San Diego — *May 2023 - Nov 2023*
- Led strategic market research project to derive key insights into consumer behavior, utilizing data analysis and NLP techniques (VADER and RoBERTa LLM).
- Improved data accuracy by 10% and revealed significant trends through data cleaning & advanced statistical analysis, contributing to research that shaped decision-making on consumer sentiments.

Business Analyst — **Pune, India**
Credit Suisse — *May 2021 - Jun 2022*
- Spearheaded critical initiatives to enhance business processes, achieving a 70% reduction in defects within the SWIFT trade lifecycle, which led to improved operational efficiency & resource management.
- Generated ad-hoc reports & provided actionable insights through data analysis using SQL & Excel, significantly influencing business strategy & the development of new products.
- Collaborated closely with leadership to resolve cross-functional challenges, optimizing the investment trade settlement process & aligning operational workflows with organizational goals.

PERSONAL PROJECTS

Investment Pattern Analysis
- Analyzed 165,000+ records to uncover key investment trends in SBIR-funded companies, for insights on industry sectors & government funding strategies.
- Improved data accuracy by 20% by data cleaning & leveraged Cypher (Neo4j) to map relationships between agencies, enabling more strategic decision-making.
- Developed a web scraping data pipeline (Selenium Webdriver, Beautiful Soup) to track real-time updates on relevant companies, storing insights for strategic use in business operations.

Pandemic Data Insights and Forecasting
- 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 Fraud Detection
- Applied supervised machine learning models like Logistic Regression, Decision Trees, Random Forest, LGBM, LGBM with SMOTE, MLP classifier, Gradient Boosting Classifier, CatBoost, XGBoost, SVM, to detect credit card fraud, resulting in potential savings of $21M.
- Optimized fraud detection algorithms, reducing model training time by 30% & enhancing overall accuracy.

Automated Document Query Tool
- Orchestrated a PDF Document Q&A chatbot using Langchain, Groq API, & Llama3 LLM, to streamline internal document review processes.
- Designed a user-friendly interface for the tool using Streamlit for a chatbot-like interaction.