SAGARIKA SARDESAI

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EDUCATION

MS, Data Science — **San Diego, CA**
UC San Diego, CGPA 3.90 — ***Sep 2022 - Jun 2024***
Relevant Courses: Data Management, Probability & Statistics, Statistical Models, Strategic Communication & Storytelling, Introduction to Causal Inference, Scalable Data Systems, Machine Learning, Responsible Data Science, Numerical Linear Algebra

Btech, Computer Science and Engineering — **Vellore, India**
Vellore Institute of Technology, CGPA 8.61 — ***Jul 2016 - Jun 2020***
Relevant Courses: Data Structures & Algorithms, Database Management Systems, Discrete Mathematics & Graph Theory, Artificial Intelligence, Lean Start Up Management, Object Oriented Software Development, Technical Answers for Real World Problems

TECHNICAL SKILLS

Languages: SQL, Python, R, Cypher, PySpark, SparkSQL, Javascript
Databases: MySQL, PostgreSQL, Neo4j, MongoDB
Data Viz & BI Tools: Tableau, Sigma, Qlik Sense, Retool, Adv. 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*
- Optimised revenue cycle management for 10+ medical facilities across 50 US states, to improve medical billing, 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 using KPIs, to identify and address operational inefficiencies, to improve performance.

Data Science Research Assistant — **San Diego, CA**
UC San Diego — *May 2023 - Nov 2023*
- Conducted strategic market research to derive 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 testing [Unit, Integration, Functional, End-to-end, Acceptance, Performance] to enhance business processes, achieving a 70% reduction in defects & improved operational efficiency & resource management.
- Generated ad-hoc reports & provided actionable insights through data analysis using SQL & Excel, to support business strategy & product development.
- Conducted root cause and gap analysis to optimise trade lifecycle & align operational workflows with organizational goals.

PERSONAL PROJECTS

Investment Pattern Analysis
- Analyzed 165,000+ records to uncover key investment trends in SBIR-funded companies, for market research insights on government funding in different industries.
- Improved data accuracy by 20% by data cleaning & leveraged Cypher (Neo4j) to map relationships between agencies, enabling more strategic decision-making.
- Implemented a web scraping data pipeline (Selenium Webdriver, Beautiful Soup) to track real-time news on companies of interest.

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, saving $21M.
- Optimized fraud detection algorithms by feature engineering & selecting features (Kolmogorov-Smirnov statistical test), reducing model training time by 30%.

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