Sreeja Kurapaty

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PROFESSIONAL SUMMARY

Analytical and detail-oriented Data Analyst with over 6 years of experience transforming raw data into strategic insights that drive business growth and efficiency. Skilled in building interactive dashboards, optimizing data pipelines, and delivering end-to-end business intelligence solutions across industries including finance, healthcare, and insurance. Proficient in SQL, Python, Tableau, Power BI, and Alteryx, with a strong foundation in statistical analysis, A/B testing, and data modeling. Known for bridging the gap between technical teams and business stakeholders, with a track record of improving reporting processes, enhancing data accessibility, and enabling data-driven decision-making. Passionate about uncovering trends, solving complex problems, and delivering value through clean, reliable data.

SKILLS

Data Analysis: Exploratory Data Analysis (EDA), Data Cleaning, Data Transformation, Trend Analysis, KPI Reporting
Programming Languages: Java, Python (Pandas, NumPy, Matplotlib, Seaborn), SQL
Data Visualization: Tableau, Power BI, Matplotlib, Seaborn
Database Management: MySQL, MongoDB, Google BigQuery
Statistical Techniques: Hypothesis Testing, A/B Testing, Regression Analysis, Descriptive & Inferential Statistics
Tools & Platforms: Excel (Advanced), Jupyter Notebook, VS Code, Git/GitHub
Collaboration & Documentation: SharePoint, Confluence, Jira, Rally, HP-ALM
Soft Skills: Critical Thinking, Problem Solving, Communication, Stakeholder Collaboration, Storytelling with Data
Middleware technologies: Apache Kafka, TIBCO EMS, TIBCO Rendezvous, IBM MQ, RabbitMQ

PROFESSIONAL EXPERIENCE

Senior Data Analyst| Goldman Sachs **Mar 2022 – Present**

- Designed and developed interactive Tableau dashboards to visualize key trading and risk management KPIs, increasing data transparency and accelerating decision-making speed by 16.3% across teams.
- Leveraged messaging middleware technologies (Kafka, RabbitMQ, IBM MQ) to support real-time data integration and communication across 100+ applications in a high-frequency trading environment.
- Built and optimized low-latency, fault-tolerant messaging architectures to ensure seamless financial data flows for high-frequency trading, risk analysis, and real-time market monitoring.
- Integrated disparate financial systems using messaging queues, reducing operational risk by 25% during volatile market conditions through enhanced trade execution and data synchronization.
- Partnered with cross-functional teams to deploy scalable messaging solutions that process millions of data points daily, improving transaction auditing, reporting accuracy, and regulatory compliance.
- Configured and managed messaging queues to enable real-time updates in risk management dashboards and financial tools, reducing report generation time by 30% and improving response times for critical decisions.
- Successfully led and executed end-to-end projects with minimal oversight, ensuring timely delivery of analytical solutions that met both technical and business objectives.
- Familiarity with Recovery and Resolution Planning frameworks, with the ability to quickly ramp up and contribute to regulatory or compliance-related initiatives if required.

Business Intelligence Engineer| Aetna **Jul 2020 – Mar 2022**

- Led a team of four in delivering end-to-end business intelligence solutions using SQL, SSIS, and Tableau, driving actionable insights and enhancing decision-making across multiple business units.
- Designed and optimized stored procedures and complex SQL queries, reducing query execution time by 20% and improving the performance of daily operations and analytics dashboards.

- Performed in-depth data analysis and cleansing to ensure high-quality, reliable datasets for reporting, leveraging Python to automate repetitive data processing tasks and increase efficiency.
- Applied A/B testing methodologies to assess business strategies and outcomes, collaborating within an Agile environment using Rally to manage user stories and sprint planning.
- Built automated reporting pipelines by integrating Tableau dashboards with spreadsheets and databases, enabling real-time access to KPIs and metrics for business stakeholders.
- Presented analytical findings and technical concepts to cross-functional audiences, leveraging strong communication skills to influence strategic decisions and promote data-driven culture.
- Demonstrated strong reasoning and problem-solving abilities by proactively identifying data discrepancies, uncovering root causes, and implementing scalable solutions.

Data Analyst| Travelers **Sep 2018 – Jul 2020**

- Optimized SQL queries for auto insurance data analysis, improving query performance by 30% by implementing advanced techniques like CTEs, temporary tables, and complex joins within MySQL, resulting in faster report generation for claims and underwriting teams.
- Developed automated reporting solutions in Power BI for Travelers Insurance, integrating data from multiple sources, including claims and policy databases, enabling real-time performance tracking and insights into premium collections, claims frequency, and customer retention rates.
- Built and maintained robust ETL pipelines to process large volumes of auto insurance data from various sources, including claims and policy systems, reducing data processing time by 30% and ensuring seamless integration with Travelers' Redshift data warehouse.
- Utilized HP ALM to manage test cases and defect tracking for auto insurance applications, collaborating with QA and development teams to ensure high-quality deliverables and alignment with business requirements in the agile development cycle.
- Streamlined financial reporting for auto insurance premiums and claims by leveraging spreadsheets and Power BI to automate month-end reporting processes, cutting report generation time by 25% and improving data accuracy for senior management and regulatory compliance.
- Delivered advanced business and data analysis solutions by independently identifying process inefficiencies and implementing improvements that enhanced operational efficiency and decision-making.

ACADEMIC PROJECTS

Customer Churn Prediction | **Tools Used:** Python (Pandas, Scikit-learn, Matplotlib), Excel, Jupyter Notebook,Tableau

- Built a machine learning model to predict customer churn using a telecom dataset with **7,000+** records.
- Performed data cleaning, feature engineering, and exploratory analysis to uncover key churn indicators (e.g., contract type, monthly charges).
- Trained and evaluated multiple models achieving **81%** accuracy.
- Visualized churn trends using Matplotlib and shared actionable insights for customer retention.

Retail Sales Dashboard | **Tools Used:** SQL, Tableau, Excel

- Analyzed historical sales data from a fictional retail chain to identify top-performing products and seasonal trends.
- Wrote complex SQL queries to join and aggregate data across multiple tables (sales, products, stores).
- Created an interactive Tableau dashboard with filters by category, region, and date range.
- Presented findings to faculty panel, highlighting sales optimization strategies that could boost revenue by **12%.**

EDUCATION

Master of Science in **Data Analytics|University | USA**
Bachelor of Engineering in **Computer Science and Engineering| Jawaharlal Nehru Technological University |India**

CERTIFICATIONS

- Google Data Analytics Professional Certificate | **Credential**
- Google Project management Professional Certificate | **Credential**
- Tableau Business intelligence Professional Certificate | **Credential**