Sreeja Kurapaty

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PROFESSIONAL SUMMARY

Experienced Data Analyst with 7 years of expertise in delivering data-driven solutions across financial services, healthcare, and insurance sectors. Expert in creating scalable data pipelines, interactive dashboards, and streamlined reporting workflows to boost business performance and decision-making. Proficient in SQL, Python, Tableau, Power BI, and Alteryx, with a solid foundation in statistical analysis, data modeling, and A/B testing. Recognized for effectively translating complex technical concepts into actionable insights and aligning analytics initiatives with strategic business goals.

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
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: 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

- Created interactive **Tableau dashboards** focused on trading and risk metrics, increasing transparency and accelerating team response times by over **16%.**
- **Designed low-latency messaging systems** to facilitate consistent trade execution and continuous market data delivery.
- Lowered operational exposure by **25%** during market stress by connecting previously siloed financial platforms through resilient communication layers.
- **Collaborated with engineering, compliance, and operations** to roll out high-throughput systems managing millions of daily transactions while ensuring **traceability** and **adherence** to oversight standards.
- Improved dashboard responsiveness by configuring messaging infrastructure to support live updates, cutting reporting delays by **30%.**
- **Independently led several full-cycle data efforts**, bridging business objectives with backend development across **trading and regulatory workflows.**
- Familiar with **Recovery and Resolution Planning (RRP)** and capable of supporting **compliance-related data reporting** and **architecture**.

Senior Associate | Aetna   Jul 2020 – Mar 2022

- **Managed a team of four** to deliver comprehensive business intelligence solutions using **SQL, SSIS, and Tableau**, enabling data-driven decisions across diverse business functions.
- **Developed stored procedures and advanced SQL queries**, cutting execution times by **20%** and boosting the efficiency of operational reports and analytics dashboards.
- **Conducted detailed data analysis and validation**, ensuring **data integrity** and reliability for reporting, while **automating data processing tasks with Python** to reduce manual effort.
- **Built automated data preparation workflows** and applied **A/B testing methodologies** to evaluate the impact of strategic initiatives.
- **Presented data-backed insights and recommendations** to senior stakeholders across **product and operations**, supporting informed decision-making.

Associate| Travelers   **Sep 2018 – Jul 2020**

- **Improved SQL performance for auto insurance data analysis**, achieving a **30% increase in query efficiency** through **CTEs, temporary tables, and complex joins** in **MySQL**, which led to **faster report delivery** for **claims and underwriting teams**.
- **Designed automated Power BI dashboards** for **Travelers Insurance**, integrating data from **claims and policy systems** to enable **real-time tracking** of **premium collections, claims frequency**, and **customer retention**.
- **Collaborated with QA teams** using **HP ALM** in **agile environments** to ensure **data accuracy** and alignment with evolving **business requirements**.
- **Enhanced financial reporting accuracy** by introducing **automation in data workflows** and embedding key metrics into **interactive dashboards**.

ACADEMIC PROJECTS

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

- Trained a machine learning model to predict customer retention using a telecom dataset with **7,000+** records.
- Performed data cleaning, feature engineering, and exploratory data 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|Purdue University | USA**
Bachelor of Engineering in **Computer Science and Engineering| Anurag Group of Institutions|India**

CERTIFICATIONS

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