Sushmitha Mallepally

Data Analyst

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Professional Summary

Dynamic Data Analyst with **nearly 4** years of extensive experience in leveraging Python, SQL, and R for comprehensive statistical analysis and extracting insights from intricate datasets. Adept at synthesizing data from diverse sources, including MySQL, NoSQL, and Azure SQL Database, while ensuring data integrity and reliability. Proficient in architecting ETL processes using Talend and Apache NiFi, as well as implementing machine learning techniques with Scikit-Learn and PyTorch to augment predictive modeling capabilities. Possesses expertise in crafting compelling data visualizations with Power BI and Tableau to effectively communicate insights. Dedicated to streamlining workflows and enhancing collaboration through project management tools such as Jira.

Competencies

- **Programming Languages:** Python, SQL, Java, R, MATLAB.
- **Database:** MySQL, NoSQL, Mongo DB, Dynamo DB, PostgreSQL, MS SQL Server, Azure SQL Database.
- **Frameworks:** jQuery, Spring Boot, Hibernate, Django, Flask, React.
- **Libraries & Machine Learning:** PyTorch, Pandas, NumPy, Seaborn, Matplotlib, Scikit-Learn.
- **Data Visualisation:** Power BI, Tableau, MS Visio.
- **ETL Tools:** Apache NiFi, Talend, Alteryx.
- **Methodologies:** Agile, Scrum, Waterfall
- **Cloud Services:** Amazon Web Services (AWS), S3, Redshift, Lambda, MS Azure, Azure Data Lake, Azure Machine Learning, Azure Data Factory
- **Other Competencies & Tools:** Analytical Thinking, Effective Analysis, Machine Learning, Jira, Git, MS Office, AI/ML, Algorithms, Deep Learning, Generative AI, Large Language Models.

Experience

McKinsey & Co., USA. | Data Analyst. **Jan 2024 – Current**

- Employed both SQL and NoSQL databases, including MySQL, to extract, clean, and manage large datasets, successfully maintaining a database of over 50,000 records while ensuring data integrity and accuracy throughout the process.
- Supervised exploratory data analysis using Python libraries such as Pandas and NumPy to uncover trends and insights, leading to a 15% increase in customer retention through the implementation of targeted marketing strategies.
- Developed interactive dashboards and reports using Tableau and Power BI, creating over 30 visualizations that enhanced decision-making processes for cross-functional teams by presenting actionable insights to stakeholders.
- Implemented machine learning algorithms using Scikit-Learn & PyTorch to predict sales trends, collaborating closely with scientists to deploy predictive models in production environments, which led 20% increase in forecast accuracy.
- Drafted and applied ETL pipelines utilizing Talend to streamline data flow from multiple sources into data warehouses, optimizing workflows and reducing data processing time by 40% for more efficient and timely data analysis.
- Participated in Agile sprints and daily stand-ups to ensure timely project delivery, while maintaining documentation for data processes and analytics, improving team efficiency by 25%.

Rubic IT Solutions, India. | Data Analyst. **Jan 2020 – Jul 2022**

- Examined and interpreted large datasets using Python & SQL to inform business decisions, resulting in a 30% increase in sales revenue by driving data-driven marketing campaigns.
- Advanced interactive dashboards using Tableau and MS Visio to present complex data insights to non-technical stakeholders, resulting in a 25% reduction in customer churn through targeted retention strategies.
- Planned & maintained databases using MySQL and PostgreSQL to ensure data integrity and security, achieving a 70% uptime and preventing any data breaches.
- Assembled and deployed machine learning models using PyTorch, Scikit-Learn, and Pandas to predict customer behaviour and preferences, resulting in a 20% increase in sales through targeted product recommendations.
- Flourished and applied ETL pipelines utilizing Alteryx to integrate data from multiple sources, ensuring data quality and integrity through validation and cleansing processes, which resulted in a 30% reduction in data integration time.

- Illustrated analytical thinking and analysis skills that drove data-driven decisions, resulting in a 25% increase in business revenue, by implementing the Waterfall methodology for structured project outcomes.
- Managed AWS and S3 cloud infrastructure, achieving a 25% reduction in costs, while collaborating with cross-functional teams via Jira, Git, and MS Office to enhance project execution and increase delivery speed by 20% as a Data Analyst.

Education

Master of Science, Purdue University, IN, USA. **May 2024**

Computer Science.

Bachelor of Technology, JNTU, India. **Jul 2021**

Electronics Engineering.