

Raj Sarode

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EDUCATION

Northeastern University , Boston, MA	Sep 2022 – May 2024
<i>Master of Science in Information Systems - Concentration in Data Engineering</i>	GPA: 3.84/4.0
Relevant Coursework: Designing Data Architecture for Business Intelligence, Data Management and Database Design	
University of Mumbai , Mumbai, India	Aug 2018 – May 2022
<i>Bachelor of Engineering in Computer Engineering</i>	GPA: 3.5/4.0
Relevant Coursework: Data Warehouse and Mining, Big Data Analytics, Database Management Systems	

PROFESSIONAL EXPERIENCE

Utsavi Trading Co. Mumbai, India	Feb 2022 – Jul 2022
Data Engineer Intern	
<ul style="list-style-type: none">Employed SQL and Python for advanced querying and data cleansing, achieving a significant reduction in data discrepanciesOptimized data processing with SQL Server to boost accuracy in financial reporting, revealing 20% more cost-saving opportunitiesStreamlined ETL workflows and improved risk analysis efficiency for pharmaceutical clients using Alteryx, resulting in a 15% revenue growth and a 60% reduction in manual operationsImplemented Tableau dashboards for financial analysis on a vast inventory of 10,000+ usage metrics, enhancing the data quality	
Data Operations Intern	May 2021 – Aug 2021
<ul style="list-style-type: none">Conducted data analysis of 50+ pharmaceutical clients, employing Python and SQL to optimize sales and distribution strategies, leading to a 25% increase in company revenueExecuted ETL using SQL, and Alteryx to integrate terabytes of data, reducing data processing time by 40% and increasing efficiency for the analytics teamTransformed data by integrating 10K records with Excel VLOOKUP and creating Pivot tables for real-time sales trend analysisEngineered a dynamic inventory dashboard with Power BI, reducing overstock by 50% and optimizing warehouse space by 20%Leveraged SQL to analyze 1M rows of shipping data and visualized delay patterns in Power BI, leading to a 30% reduction in delays	
The Sparks Foundation Mumbai, India	
Data Science and Business Analytics Intern	Feb 2021 – Mar 2021
<ul style="list-style-type: none">Developed a classification model for predicting heart disease using ML and analyzed the results on the basis of age, sex, etcOptimized hyperparameters using grid search, resulting in a 5% improvement in model accuracy, achieving a final accuracy of 86%Performed exploratory data analysis and worked on predicting the results using KNN model and achieved an accuracy of 86%Created visualizations like scatter plots, heatmaps, and box plots to show correlations between symptoms and heart disease	

PROJECTS

IMDB Project (Hadoop, MS SQL, Talend, Alteryx, Tableau)	Jan 2024 – Mar 2024
<ul style="list-style-type: none">Designed IMDB data warehouse model using ER studio; created a schema of DW model in MS SQL for loading dataIntegrated, cleaned, mapped, and loaded around 30 million records in the IMDB data warehouse using AlteryxAnalyzed data by writing complex queries, performed data profiling, developed visualizations, and dashboards on Tableau	
IOWA Liquor Sales (Alteryx, SQL, Power BI)	Sep 2023 – Dec 2023
<ul style="list-style-type: none">Conducted in-depth analysis of 25M+ unclean liquor sales records from Iowa, identifying key trends and insightsDeveloped a dimensional model in Alteryx, reducing data processing time by 50% and achieving 99.5% accuracyCreated data visualizations in Power BI, improving KPI understanding by 70% and decision-making efficiency by 30%	
Collision Scope: NYC Traffic Dynamics (SQL, BigQuery, Azure Data Studio, Talend, Power BI, Tableau)	Feb 2023 – May 2023
<ul style="list-style-type: none">Extracted NYC-MVC data from BigQuery and ingested in Azure Data Studio for data validation and cleaning utilizing SQLPerformed data integration through Alteryx ETL processes, resulting in successful ingestion into the data modelGenerated advanced dashboards in Tableau and Power BI for NYC traffic, focusing on collision trends in high-risk areas	

SKILLS

Programming	Python, SQL, R, JavaScript
Database Systems	MySQL, PostgreSQL, Microsoft SQL Server, BigQuery
Visualization Tools	Tableau, Microsoft Power BI, SSRS, MS Excel, Matplotlib, Seaborn
Big Data	Alteryx, Talend Open Studio, DBT, ER Studio
Cloud Services	Amazon Web Services (AWS), Microsoft Azure, Snowflake, Google Cloud Platform (GCP)
Certifications	AWS Certified Cloud Practitioner, Google Analytics, Alteryx Designer Core

LEADERSHIP EXPERIENCE AND RECOGNITIONS

<ul style="list-style-type: none">Graduate Teaching Assistant (Prompt Engineering & Data Science)	Jan 2024 – May 2024
<ul style="list-style-type: none">Treasurer (Computer Society of India)	Aug 2021 – Jul 2022