Khushi Bhoj

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EDUCATION

Rochester Institute of Technology   Aug 2023 – May 2025
Master of Science in Data Science (GPA: 4.0/4.0)   *Rochester, NY*

University of Mumbai   Aug 2019 – May 2023
Bachelor of Engineering in Computer Engineering (GPA: 3.97/4.0)   *Mumbai, India*

TECHNICAL SKILLS

Programming Languages: Python, R, Java, C, C++, C#, MATLAB
Cloud & DevOps: Google Cloud Platform (GCP), Amazon Web Services (AWS), Azure, Kubernetes, Terraform
Database & Big Data: Oracle, MongoDB, MySQL, SQL Server, Apache Hadoop, Spark, NoSQL, Redis
Machine Learning & AI: Scikit-learn, TensorFlow, Keras, PyTorch, Generative AI
Data Analytics & Visualization: Tableau, Power BI, Microsoft Excel, SAS, Kettle, Looker, Qlik
Data Engineering: ETL, dbt, Apache Airflow, Apache Kafka, Snowflake, Databricks, Amazon Redshift

EXPERIENCE

FoodShare Assistant - Data Engineer & Analyst   Jul 2024 – May 2025
RIT FoodShare   *Rochester, NY*
- Built ETL pipelines in Python and SQL to integrate inventory and donation data, improving accuracy by 30%.
- Automated reporting workflows in Excel and Google Sheets, reducing manual effort by 25%.
- Developed Tableau dashboards to track demand and supply, cutting stockouts by 25%.
- Collaborated with program leads to translate requirements into actionable data solutions, increasing participation by 50%.

Data Analyst   Oct 2021 – May 2023
Incorporation Hub Private Limited   *Mumbai, India*
- Developed SQL queries and Excel macros, reducing reporting time by 60%.
- Created five Tableau dashboards for 20+ executives tracking customer behavior and financial KPIs.
- Directed data validation and cleansing across systems, enhancing information quality and consistency by 95%.
- Performed segmentation analysis, identifying three high-value customer groups for targeted campaigns.

PROJECTS

All Things EDA – E-commerce Analytics | *Python, Pandas, NumPy, Seaborn, Matplotlib*
- Conducted EDA to assess data quality and structure in a real-world e-commerce dataset.
- Analyzed customer behavior, sales trends, and delivery performance across time and product categories.
- Identified key revenue drivers, customer segments, and operational bottlenecks impacting business outcomes.
- Translated analytical findings into clear, actionable insights for business decision-making.

End-to-End Customer Churn Analysis (Subscription Business) | *Python, SQL, Scikit-learn*
- Analyzed customer behavior and contract-level data to identify primary drivers of churn.
- Engineered features and built predictive models to flag at-risk customers.
- Evaluated model performance using business-relevant metrics and baseline comparisons.
- Delivered data-driven retention recommendations aligned with subscription business goals.

Funnel Analysis for Online Retail Platform | *Python, SQL, Pandas*
- Designed a complete customer funnel to measure conversion rates across key stages.
- Quantified drop-offs and revenue impact at each funnel stage.
- Performed cohort-based analysis to compare funnel behavior over time.
- Identified optimization opportunities to improve conversions and repeat purchases.

PUBLICATIONS

Medium Author – Articles on data science, generative AI, and LLM Jailbreaking
"CAMERICA - Criminal Identification and Real-time Monitoring of Valuables using Facial Recognition in Hospitals," Computer Vision and AI-integrated IoT Technologies in Medical Ecosystem, April 2023.
"Review on Various Face Recognition Databases", Journal on Pattern Recognition (JPR), December 2022.
"Effective Construction Site Monitoring using Artificial Intelligence (AI)," Smart Cities: IoT Technologies, Big Data Solutions, Cloud Platforms, and Cybersecurity Techniques, October 2022.