

Mohit Deshpande

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EDUCATION

- Northeastern University, *M.Sc. Data Analytics Engineering, Vancouver, CA* Sep 2023 - Apr 2025
- University of Mumbai, *B.E. Information Technology, Mumbai, India* Jun 2015 - Jul 2019

WORK EXPERIENCE

Data Coordinator, BCNDP, Vancouver, BC Jul 2024 - Dec 2024

- Automated campaign data updates across 92 electoral ridings using Python, PostgreSQL, and API integration, reducing schema inconsistencies by 30%
- Engineered ETL pipelines to integrate multiple datasets into a centralized data warehouse, improving data accessibility by 70% to enable comprehensive campaign analysis
- Developed a Python based web application to clean, standardize, and verify voter contact records, improving the contact data quality by 40% and boosting the effectiveness of campaign outreach strategies
- Developed a reporting dashboard in Looker Studio, providing actionable insights into donation metrics, guiding stakeholder decisions on targeted campaigns that increased donations in underperforming ridings by 60%
- Built and deployed a logistic regression model to predict voter turnout, achieving 85% accuracy and driving a 5% increase in voter participation within key electoral ridings

Data Analyst, Google, Hyderabad, India Sep 2021 - Jul 2023

- Developed a SQL-based access management infrastructure in collaboration with vendor managers across 15+ product areas, unifying access for 23,000+ reviewers and improving system scalability and data governance
- Delivered a centralized dashboard in Looker Studio providing real-time insights across 30+ vendor locations, enhancing operational visibility and empowering stakeholders with faster, data-informed decision-making
- Developed automation workflows using SQL and Google sheets, improving the client onboarding efficiency by 40%, and reducing manual access provisioning of vendors by 60%, while maintaining high data integrity

Database Analyst, Star India Pvt. Ltd, Mumbai, India Mar 2019 - Jun 2021

- Migrated unstructured advertising data from 500+ Excel workbooks using SQL into a centralized database system with validated schema rules, enabling robust analysis of advertising performance and user trends
- Developed and maintained scalable data pipelines to integrate third-party partner data, facilitating efficient data flow and enhancing data-driven advertising strategies

PROJECTS

[Multiagent-Travel-Itinerary-Planner](#)

- Architected a multi-agent travel planning application in Python using LangGraph and LLMs to generate personalized itineraries, activity recommendations, and actionable travel insights

[YouTube Data Engineering](#)

- Engineered a scalable AWS data pipeline (S3, Lambda, Glue, Athena) to automate the processing of YouTube trending videos dataset and deliver actionable trend visualizations via QuickSight

[Risk Insights Virtual Assistant](#)

- Developed an Azure-hosted Streamlit application for detection of anomalies in sensors based on multi-stage machine learning models, achieving 81% accuracy, and delivering real-time alerts with AI-based maintenance assistant

SKILLS

- Programming Languages:** Python (scikit-learn, TensorFlow)
- Databases:** MySQL, PostgreSQL, MS SQL Server
- Core Skills:** Machine Learning, Data Visualization and Business Intelligence, Data Warehousing, ETL Frameworks
- Technologies/Frameworks:** Linux, Docker, Git, GitHub
- Other Tools:** Microsoft Suites (Excel, Access, Power BI), Google Sheets, Looker Studio, Tableau