

PREMAL DOSHI

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SUMMARY

Insight-driven Senior Data Analyst with 4+ years of experience in consulting, healthcare, and public policy. Skilled at transforming complex data into actionable insights using SQL, Python, and BI tools. Proven success in optimizing reporting systems, improving campaign ROI, and supporting strategic decision-making for executive stakeholders. Passionate about using data to solve real-world problems and drive measurable impact.

WORK EXPERIENCE

Sr. Data Scientist

Luminosity, Inc. – Public Policy Consulting | St. Petersburg, FL | Public Policy Analytics

January 2025 - Present

- Developed Power BI dashboards to track supervised release outcomes, including 90-day compliance metrics, enabling leadership to assess program effectiveness.
- Designed an executive-level Sankey chart for NYC's MOCJ to visualize case flow under Penal Law 370.15, informing data-driven policy changes.
- Built and maintained SQL-based ETL pipelines to transform pretrial justice data into clean, analysis-ready datasets.
- Delivered clear Excel-based reports and visual insights to city directors and agency stakeholders, accelerating decision-making cycles.

Research Assistant (Team Lead)

University of South Florida | Tampa, FL | Graduate Research

August 2023 - May 2025

- Led a 10-member team in developing a deep learning-based container tracking system, saving ~\$90K in logistics costs during peak operations.
- Coordinated project timelines, sprint planning, and cross-functional communication using Jira and Agile methodologies.
- Co-authored a peer-reviewed paper accepted for oral presentation at SPIE Optics + Photonics 2025.

Decision Analytics Associate

ZS Associates | Global Management Consulting Firm | India | Healthcare & Finance

February 2022 - August 2023

- Built interactive Power BI dashboards to track churn, NPS, and campaign performance, enabling real-time insights for marketing teams.
- Boosted healthcare campaign ROI by 25% through A/B testing, customer segmentation, and data-driven recommendations.
- Queried, cleaned, and transformed large datasets from Snowflake and cloud systems using advanced SQL.
- Automated Excel-based reporting using Python scripts, reducing manual reporting time by 15%.
- Delivered high-priority SQL queries and KPI dashboards for executive leadership at a Fortune 50 pharmaceutical client.
- Designed and automated compliance reports for a \$1M portfolio, saving 3+ hours per day across 30+ stakeholders.

KEY SKILLS

Languages & Tools: SQL, Python (pandas, scikit-learn, matplotlib), Excel, Power BI, Tableau

Databases: Snowflake, SQL Server, PostgreSQL, Redshift

Techniques: A/B Testing, KPI Reporting, Dashboarding, Causal Inference, Data Visualization

Soft Skills: Stakeholder Communication, Cross-functional Collaboration, Agile Project Management

EDUCATION

University of South Florida | M.S. in Business Analytics and Information Systems | GPA 3.97

August 2023 - May 2025

Relevant Coursework: Data Visualization, Text Analytics, Statistical Data Mining, Machine Learning, Business Data Programming

Institute of Technology, Nirma University | Bachelor of Technology

August 2018 - June 2022

PUBLICATIONS & AWARDS

- **NSF-Funded Research:** Co-led ML-based cancer detection project; paper accepted for oral presentation at SPIE 2025 (Paper No. 13590-9)
- **Hackathon Winner:** 1st place, Sahlgrenska Global Health Hackathon (2025)
- **Publication:** "Neural Network Classifier for Tool Wear Monitoring," Springer 2023

PROJECTS

Cancer Detection with ML (NSF-funded)

- Built ML models (Gradient Boosting, Neural Nets) on sensor data to detect early-stage cancer. Improved accuracy by 23% through feature tuning. Project awarded \$400K NSF grant.

Criminal Justice Pilot Evaluation – Brooklyn

- Analyzed pretrial population data using SQL and Python to support a pilot alternative to supervised release. Helped ensure clean cohort design and targeted resource allocation.