

# SHUBHAM MITTAL

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## SUMMARY

Analyst with a robust background in SQL, Python, and BI dashboard development. Demonstrated success in enhancing data integrity and streamlining analysis, achieving up to 40% improvement in reporting accuracy and a 60% reduction in data exploration time. Experienced in managing large data sets and ETL processes to support stakeholder decision-making and operational excellence.

## EDUCATION

### University of Illinois, Urbana-Champaign

Aug 2024 - Aug 2025

Master of Science, Engineering Management

•**Coursework:** Big Data Infrastructure, Enterprise Database Management, Data Storytelling, Business Intelligence

### Vellore Institute of Technology, India

Jun 2018 - May 2022

Bachelor of Technology, Mechanical Engineering

## PROFESSIONAL EXPERIENCE

### Data Science Research Services

Mar 2025 - Present

Data Scientist

Champaign, IL

- Designed and implemented an AI-powered visualization agent using Python and Pandas, automating insights from 10K data points for a business simulation platform.
- Leveraged data visualization best practices and dashboarding techniques to translate complex business scenarios into actionable insights, increasing stakeholder data accessibility by 40%.
- Applied statistical analysis and data-driven methodologies to deliver interactive business intelligence solutions, resulting in a 30% improvement in user engagement and scenario analysis efficiency.

### Road Ready Wheels (Business Practicum)

May 2025 - Jul 2025

Team Lead (Data Analyst)

Champaign, IL

- Analyzed \$4B wheels aftermarket and developed a scoring model to rank vehicle-to-SKU segments by complexity and volume; recommended high-ROI investments with 200%+ projected return and improved market coverage by 54%.

### Discover Partners Institute (Business Practicum)

Aug 2024 - Jan 2025

Data Analyst

Champaign, IL

- Built public-facing Tableau dashboard visualizing 250K Illinois school district data points, enabling key insights for 50+ stakeholders including policymakers and education leaders.
- Implemented SQL-based ETL processes across 5+ data sources, reducing data inconsistencies by 15% and coordinating cross-functional delivery to meet stakeholder expectations.

### Oxygen Services India

Jul 2022 - Jul 2024

Senior Risk Data Analyst

Gurugram, India

- Analyzed daily transactional data for 5K banking kiosks, processing \$6M+ daily to ensure regulatory compliance and fraud prevention.
- Automated real-time fraud detection by replacing manual Excel reconciliation with SQL-based system, reducing detection time from 30days to same-day and recovering \$300K in fraudulent transactions.
- Developed predictive fraud detection models using Random Forest and Logistic Regression, achieving 40% improvement in accuracy and 25% reduction in false positives for payment anomalies
- Built executive Tableau dashboards and SQL ETL pipelines for C-suite, reducing manual reporting by 60% and enabling data-driven risk management strategies.

## LEADERSHIP ROLES & PROJECTS

### Research & Teaching Assistant

Feb 2025 - May 2025

Prof Ashish Khandelwal, UIUC

- Managed and mentored 10+ MSBA Business Practicum teams, supporting project execution and strategic decision-making.

### Next Word Prediction Model

Aug 2024 - Dec 2024

- Built a Python NLP next-word prediction model with 86% accuracy, tokenizing and stemming text to generate an 8,200+-word vocabulary.

## SKILLS & CERTIFICATIONS

- Data Analysis & Visualization Tools:** Tableau, Power BI, Knime, MS-Excel Advanced, VBA
- Cloud & Big Data Platforms:** AWS Tools (Redshift, Aurora, Athena, QuickSight, EMR,DynamoDB), Snowflake, Hadoop
- Data Management & Database Systems:** MySQL, PostgreSQL, MS SQL Server(SSIS, SSRS), MongoDB, Data Management
- Programming Languages & Tools:** Python (NumPy, Pandas, Scikit-Learn, SciPy, Matplotlib, TensorFlow), R
- Analytics & Modeling:** Forecasting, Regression, Clustering, Cost-Benefit Analysis, KPI Dashboards
- Certifications:** Google Advanced Data Analytics Professional, Six Sigma Green Belt (EY), AWS Cloud Practitioner