

Vaibhavi Satish

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SUMMARY

Business Data Analyst with 3+ years of expertise in transforming complex datasets into **strategic business solutions** across healthcare, aviation, and financial services. Proven success in reducing operational costs by 40%, improving **compliance accuracy** by 30%, and accelerating **product delivery** by 15% through **advanced analytics** and machine learning. Expert in **stakeholder collaboration**, **process optimization**, and delivering scalable data solutions that drive measurable **business impact**.

SKILLS

- Technical Skills:** Python, SQL (PostgreSQL, MySQL), MS Access, Databricks, Hadoop/Spark, Tableau, Power BI (DAX, Power Query), Excel, Data Modeling & Statistical Analysis, User Acceptance Testing (UAT), AWS (Glue, EMR, Airflow)
- Business Skills:** Lean Six Sigma (Green Belt), Requirements Gathering, Business Process Improvement (DMAIC), KPI Development, Predictive Analytics, Risk Management, Strategic Communication, Stakeholder Engagement and Management, Data Storytelling, Project Road mapping, Go-to-Market Strategy, Agile (Scrum), Resource Planning, Pricing Analysis, Confluence, Smartsheet

EXPERIENCE

Business Data Analyst | Mahantech Corp (Contract) | Remote, USA | 07/2024 - 06/2025

- Spearheaded product modernization of Rx Datatrack compliance system using **Six Sigma DMAIC**, reducing manual reporting by 40% and processing delays by 65%.
- Designed **Databricks pipelines** processing 50,000+ monthly records and built 10 **real-time Tableau dashboards**, reducing compliance errors by 30%.
- Orchestrated **Agile sprints** using **JIRA** and created **Smartsheet roadmaps**, accelerating product rollouts by 15%. Eliminated 95% of data discrepancies through streamlined workflows and **advanced Excel automation** (VLOOKUP, pivot tables, VBA).

Data Analyst (Intern) | British Airways | Dallas, USA | 01/2024 - 05/2024

- Built **machine learning** models using **Python** and **scikit-learn** to forecast booking trends, reducing missed bookings by 10%.
- Implemented **AI-driven** customer feedback system using **NLP sentiment analysis** with spaCy and automated email triggers.
- Drove **cross-functional collaboration** with Marketing, Sales, and Supply Chain teams, refine **KPIs** and achieving 15% operational efficiency improvement. Streamlined reporting workflows using **Power BI DAX** and **Power Query**, reducing reporting time by 50%.

Graduate Assistant | University of North Texas | Dallas, USA | 12/2022 - 05/2024

- Enhanced **business reporting** accuracy by 20% through **data visualization** and validation using Tableau and Python.
- Leveraged statistical techniques (hypothesis testing, ANOVA, chi-square) to meet departmental requirements and support **data-driven decision making**. **Mentored 25+ students** in data visualization tools including Tableau, Power BI, Excel, and Python.
- Automated** project tracking using Smartsheet, improving **project delivery** timelines and **stakeholder collaboration**.

Data Analyst (Software Engineering) | Hashout Technologies | Bengaluru, India | 01/2022 - 07/2022

- Gathered client requirements** and developed **Figma UI/UX prototype** based on **user stories**, escalating technical specifications to development team. Optimized front-end code using **JavaScript** and **CSS**, reducing page load times by 30% and errors by 25%.
- Accelerated data processing speed by 25% using Hadoop MapReduce with Snowflake and PostgreSQL for scalable **data warehousing**.

PROJECTS

Urban Walkability Index – Capstone Project | 01/2024 - 05/2024

- Created a **machine learning** model (neural network with ReLU activation) to assess urban walkability, increasing prediction accuracy by 25%. Orchestrated **data collection** (census data, traffic patterns) and designed **Tableau dashboards** to communicate insights, guiding city planners in data-driven infrastructure investments.

Healthcare Analytics: Predicting Patient Readmission | 08/2023 - 12/2023

- Devised a hospital readmission risk prediction model deploying **TensorFlow**, achieving 85% accuracy in identifying high-risk patients. Executed end-to-end **data analysis** (data exploration, **feature engineering**, logistic regression vs. random forest modeling) and interpreted results with SHAP values, contributing to a 20% reduction in readmission rates and restructured resource allocation.

EDUCATION

Masters in Business Analytics | University of North Texas, USA | 08/2022 - 05/2024

Bachelors In Computer Science Engineering (Minor - Data Science) | Presidency University, India | 08/2018 - 05/2022

CERTIFICATIONS

Lean Six Sigma Green Belt – PMI (Completed Jan 2025)

Smartsheet Project Management Expert – Udemy (Completed April 2025)

Risk Management – UC Irvine (Completed Oct 2024)

Marketing Analytics – UVA (Completed Dec 2023)