Vaibhavi Satish

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| [LinkedIn](#) | [Website](#) | [GitHub](#) |

Summary

Business & Data Analyst with 3+ years of experience leveraging data analytics, business intelligence, product strategies and machine learning to drive strategic decision-making across healthcare, aviation, and financial services. Adept at translating complex data into actionable insights for non-technical stakeholders, improving reporting accuracy, and simplifying workflows. Experienced in stakeholder management and cross-functional teamwork to align data solutions with business objectives. Skilled in problem-solving, gap analysis, process optimization, and KPI development, with a track record of automating workflows, enhancing data integrity, ensuring regulatory compliance, and delivering impactful dashboards. Certified in Lean Six Sigma Green Belt, Risk Management, Smartsheet Project Management Expert, and Product Management & Marketing Analytics.

Skills

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

Experience

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

- Led product modernization of the "Rx Datatrack" compliance system by capturing stakeholder needs and redesigning workflows using Six Sigma DMAIC and root cause analysis, cutting manual reporting by 40% and delays by 65%.
- Designed Databricks pipelines for 50K+ monthly records and built 10 real-time Tableau dashboards to enhance anomaly detection, cutting compliance errors by 30%. Managed Agile sprints using JIRA and Smartsheet-based product roadmaps, applying Excel functions (VLOOKUP, pivot tables, array formulas, VBA) to automate reporting and roadmap metrics, accelerating rollouts by 15%.
- Collaborated with IT and business stakeholders to eliminate 95% of data discrepancies by streamlining approval workflows and conducting structured requirements-gathering sessions, enhancing audit readiness and data validation accuracy.

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

- Reduced missed flight bookings by 10% and improved customer targeting by 5% using machine learning models (Python, scikit-learn) to forecast booking trends, visualized in Tableau dashboards to inform marketing strategies. Enhanced real-time customer feedback response by deploying an AI-driven system (NLP-based sentiment analysis with spaCy and automated email triggers), boosting service responsiveness.
- Led cross-functional collaboration with Sales, Supply Chain, and Procurement teams to refine KPIs using Six Sigma tools (DMAIC, fishbone diagrams), driving a 15% improvement in operational efficiency. Optimized financial reporting workflows with Power BI (DAX, Power Query) and SAS (regression analysis), achieving 50% faster reporting and 15% cost savings in procurement by automating pricing and spend analysis.

Graduate Assistant (Data Analytics) — 12/2022 - 05/2024
University of North Texas — Dallas, USA

- Improved business reporting accuracy by 20% through data visualization and validation using Tableau (interactive dashboards, KPIs) and Python (Pandas, NumPy). Collaborated with academic stakeholders to gather requirements and deliver reports with actionable insights using Smartsheet.
- Applied statistical techniques (hypothesis testing, ANOVA, chi-square) using Excel and Python to support data-driven strategies. Mentored 25+ students in data warehousing principles (star schema, ETL), leveraging Smartsheet for tracking project milestones and automating status updates, boosted project delivery and data management.

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

- Developed a Figma UI/UX prototype for a web application (URL copyright detector), collaborating closely with clients to enhance user experience by 15% and streamline project timelines, resulting in higher client satisfaction.
- Accelerated data processing speed by 25% using Hadoop MapReduce with Snowflake for scalable data warehousing, enabling quicker fraud detection. Optimized front-end code (JavaScript, CSS) to reduce page load times by 30% and errors by 25%, improving user satisfaction.

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 built Tableau dashboards to communicate insights, guiding city planners in data-driven infrastructure investments.

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

- Developed 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 (Specialization Data Science) | Presidency University, India — 08/2018 - 05/2022

Certifications

- Marketing Analytics – **UVA (Completed Dec 2023)**
- Risk Management – **UC Irvine (Completed Oct 2024)**
- Smartsheet Project Management Expert – **Udemy (Completed April 2025)**
- Lean Six Sigma Green Belt & Product Management – **PMI (Completed Jan 2025 & May 2025)**