

Vaibhavi Satish

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Summary

Business & Data Analyst with 3+ years of experience leveraging data analytics, business intelligence, and machine learning to drive strategic decision-making across healthcare, aviation, and financial services. Adept at translating complex data into actionable insights, improving reporting accuracy, and streamlining workflows. Experienced in **stakeholder collaboration** and cross-functional teamwork to align data solutions with **business objectives**. Skilled in **problem-solving**, **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**, **Product Management** and **Marketing Analytics**, with a passion for bridging technical solutions with business outcomes.

Skills

- **Technical Skills:** Python, SQL (PostgreSQL, MySQL), Databricks, Hadoop/Spark, Tableau, Power BI (DAX, Power Query), Excel (VBA), Azure (Data Factory, Synapse), AWS (Glue, EMR, Airflow)
- **Business Skills:** Six Sigma (Green Belt), Risk Management, Data Modeling & Analysis, KPI Metrics Development, Process Improvement (DMAIC), Strategic Communication, Stakeholder Engagement, Data Storytelling, Agile, Confluence, Smartsheet Project Management

Experience

Data Analyst 07/2024 – Present

Client: Board of Pharmacy, State of West Virginia Remote, USA

- **Engineered Python scripts** in Databricks notebooks to automate ingestion of **50K+ monthly pharmacy records**, reducing pipeline runtime by **35%** while ensuring **HIPAA** and pharmacy compliance. Applied **data modeling** for efficient querying, enabling **10 Tableau dashboards** for real-time anomaly tracking and cutting manual reporting by **40%**.
- **Deployed Databricks Workflows** for end-to-end **compliance checks**, slashing inspection delays from **14 to 5 days** and reducing submission errors by **30%** to meet **financial standards**.
- Partnered with **IT and business teams** to eliminate **95% of data discrepancies** through streamlined **approval workflows** and structured **requirements gathering**. Drove **Agile sprints** via **JIRA** and led **Smartsheet project tracking**, accelerating **regulatory initiatives** by **15%**.

Data Analyst (Intern) 01/2024 - 05/2024

British Airways Dallas, Texas

- **Reduced** missed flight bookings by 10% and improved customer targeting by 5% using machine learning models (**Python** linear regression with NumPy/scikit-learn) to forecast booking trends. Visualized results in **Tableau** dashboards (drill-down filters, trend lines) to 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, refining **KPIs** using **Six Sigma** tools (DMAIC, fishbone diagrams) to drive a 15% improvement in operational efficiency.
- **Optimized** financial reporting workflows with **Power BI** (DAX measures, Power Query for ETL) and **SAS** (data aggregation, regression analysis), achieving 50% faster reporting and 15% cost savings in procurement.

Graduate Assistant (Data Analytics) 12/2022 - 05/2024

University of North Texas Denton, Texas

- **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's.
- 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, which enhanced **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 networks with ReLU) to analyze 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 model using **TensorFlow**, achieving 85% accuracy in identifying high-risk patients. Executed end-to-end data analysis (exploration, feature engineering, logistic regression vs. random forest modeling) and interpreted results with **SHAP** values, contributing to a 20% reduction in readmission rates and improved 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

- Smartsheet Project Management Expert – **Udemy (Completed April 2025)**
- Lean Six Sigma Green Belt – **PMI (Completed Jan 2025)**
- Risk Management – **UC Irvine (Completed Oct 2024)**
- Introduction to Data Engineering (AWS) – **Amazon Web Services (Completed 2023)**