

# SIDDHANT ALHAT

## BUSINESS ANALYST

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Business Analyst with a practical approach to solving problems through data. Experienced in transforming complex datasets into actionable insights using tools like SQL, Tableau, and Datadog to design dashboards, track KPIs, and support decision-making across teams. Strong in requirements gathering, systems analysis, and translating business needs into clear, actionable insights.

### WORK EXPERIENCE

#### **Business Systems Analyst Intern ( Manager- [kmarkey@newhaven.edu](mailto:kmarkey@newhaven.edu) )**

September 2024 – present

##### **University of New Haven - Office of Information Technology**

West Haven, CT, USA

- Worked on analyzing incident data, license usage, and overall student and faculty system activity to help IT better understand usage trends and make decisions around resource allocation. Created clear dashboards in PowerBI to share insights with the team.
- Built SQL-based data workflows to consolidate information from LabStats, Kace, and internal systems. The insights helped reduce unused software licenses by 56% and improved tracking of device allocation, leading to a more efficient use of IT resources and budget.
- Promoted from Business Systems Analyst Intern from technical support Intern based on strong performance in issue analysis, user support, and operational documentation.

#### **Business Analyst Team Lead – Research Assistant ( Manager - [asula@newhaven.edu](mailto:asula@newhaven.edu) )**

October 2023-May 2024

##### **University of New Haven**

West Haven, CT, USA

- Worked on a university admissions project to build a predictive model that identifies high-fit student applicants from over 10,000 applications each semester. Focused on data preparation, feature analysis, and translating academic data into clear business insights to support admission decisions.
- Used **SQL** for data extraction, **Python** (Pandas, scikit-learn) for data cleaning and preparation, and **Power BI** to build dashboards that visualized applicant trends, prediction results, and key performance metrics.
- Led the Business Analyst team and worked closely with data scientists and academic stakeholders. The project reduced manual review time by over 80%, improved resource planning, and helped the admissions team make faster, data-driven decisions.

#### **Business Analyst – Operations ( Manager – [td@isfinformatica.com](mailto:td@isfinformatica.com) )**

August 2022 – July 2023

##### **ISF Analytica**

Mumbai, India

- Collaborated with IT operations and engineering teams to analyze system performance, infrastructure efficiency, and technician activity, contributing to the development of a structured KPI reporting framework.
- Used **SQL**, **Databricks**, and **OpenSearch** to extract and process system telemetry data; built real-time dashboards in **Tableau** to track downtime, asset utilization, and operational metrics.
- Helped configure monitoring and alerting workflows using **Datadog**, reducing issue detection time and improving response rates by automating checks for critical systems.
- **Received an internal innovation award** for designing a solution that automated repetitive system checks and enhanced visibility into technician performance, resulting in reduced downtime and improved service continuity.

#### **Business Analyst – Operations & Analytics (Crisis Management)**

December 2019 – June 2021

##### **Element Fleet ( Tata Consultancy Services ) ( [serena.fernandes@tcs.com](mailto:serena.fernandes@tcs.com) )**

Mumbai, India

- Built predictive maintenance models using **Random Forest** and **XGBoost** to forecast breakdowns across 1,200+ fleet vehicles, reducing unplanned service incidents and improving asset uptime.
- Developed scalable **SQL-based ETL pipelines** to process high-volume telematics and vendor service records, enabling accurate performance tracking, vendor evaluation, and maintenance optimization.
- Designed and delivered **interactive dashboards in Tableau** to monitor fleet health, predict failures, and support proactive scheduling, driving faster decisions for logistics and field operations teams.
- **Awarded Employee of the Year** for leading a high-impact analytics initiative that improved operational visibility, reduced downtime, and aligned technical reporting with key client business objectives.

## **EDUCATION**

**M.S. in Data Science**, University of New Haven | West Haven | CT, USA May 2025 | GPA: 4.00  
Relevant Coursework: Business Intelligence & Data Visualization (Power BI, Tableau), Metrics & KPI Reporting, Data Engineering & ETL Pipelines, Cloud Computing (Azure), Predictive Modeling, Machine Learning, AI & NLP, Statistical Analysis.

**M.Sc. in Information Technology**, University of Mumbai, Mumbai, India May 2022 | GPA: 4.00  
Relevant Coursework: Cloud Computing & System Integration, Full-Stack Application Development, Process Modeling, Data Analytics & Visualization, Software Architecture & Systems Design, Database Management

**BSc. in Information Technology**, University of Mumbai, Mumbai, India Sept 2019 | CGPI:3.70  
Relevant Coursework: System Analysis & Design, Database Management Systems, Operating Systems, Object-Oriented Programming (C++/Java), Data Structures, Computer Networks, Web Technologies, Software Engineering

## **RESEARCH**

Published and presented a peer-reviewed research paper at ASEE-NE 2025 on forecasting international student enrollment using ARIMA and LSTM models, achieving 89% prediction accuracy on 100,000+ records. The study is available on **ResearchGate** and **Google Scholar**. Developed an interactive Power BI dashboard to visualize enrollment trends and support data-driven strategic planning by institutional stakeholders. Focus areas included time-series forecasting, scalable ML pipelines, and transparent insight delivery for cross-functional decision-making. (ASEE: <https://peer.asee.org/data-driven-decision-making-for-enrollment-trends-and-educational-policy-analysis-in-higher-education> ,

Research Gate : [https://www.researchgate.net/publication/391278329\\_Data-Driven\\_Decision\\_Making\\_for\\_Enrollment\\_Trends\\_and\\_Educational\\_Policy\\_Analysis\\_in\\_Higher\\_Education](https://www.researchgate.net/publication/391278329_Data-Driven_Decision_Making_for_Enrollment_Trends_and_Educational_Policy_Analysis_in_Higher_Education) ,  
GoogleScholar:[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C36&q=siddhant+alhat+rajendra&oq=#d=gs\\_qabs&t=1748316159166&u=%23p%3D6BC8V78Hv5wJ](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C36&q=siddhant+alhat+rajendra&oq=#d=gs_qabs&t=1748316159166&u=%23p%3D6BC8V78Hv5wJ) )

## **SKILLS**

### **Business Analysis & Process Modeling:**

Requirements Gathering, Metrics Reporting, KPI Tracking, Feature Gap Analysis, System Analysis, Process Mapping, UML Diagrams, C4 Modeling, Agile/Scrum, Confluence, Jira

### **Data Analysis & Forecasting:**

Statistical Analysis, Time-Series Forecasting (ARIMA, LSTM), Trend Analysis, A/B Testing, Predictive Modeling, Data-Driven Decision Making, Campaign Performance Optimization

### **Data Visualization & Reporting:**

Power BI, Tableau, Microsoft Fabric, Datadog Dashboards, Kibana/OpenSearch, Interactive Dashboards, Executive Reporting, Automated Alerting

### **Database & Query Languages:**

SQL (PostgreSQL, SQLite, MySQL, SQL Server), SQL Workbench, BigQuery, Data Cleansing & Transformation, ETL Development

### **Programming & Scripting:**

Python, Shell Scripting, API Integration (RESTful), JSON/XML, Advanced Excel, Jupyter Notebooks, CI/CD Fundamentals

### **Cloud & Monitoring Tools:**

AWS (S3, Redshift, CloudWatch), Microsoft Azure, Google Cloud Platform, Cloud Infrastructure Monitoring, Data Ingestion Pipelines

### **Collaboration & Documentation:**

Cross-Functional Team Communication, Stakeholder Engagement, Technical Documentation, Report Writing, Version Control (Git), Visual Modeling Tools

## **ACHIEVEMENT**

### **National Winner – Business Case Study Competition**

Won first place in a national-level business case study competition, competing against participants from top IIMs. Analyzed real-world business challenges, identified gaps in operations, and proposed strategic solutions to improve sustainability and long-term growth. Recognized for clarity in stakeholder analysis, solution impact, and presentation delivery.

## **CERTIFICATIONS**

- Power BI for Data Analysts – Microsoft Learn
- Jira Fundamentals – Atlassian University
- Data Analytics Essentials – Google (Coursera)
- Tableau Visualization Basics – Trailhead

For a detailed view of my business analysis and data-driven project work, please visit: <https://sidd-nara.github.io/Portfolio/>