

SIDDHANT ALHAT

Data Analyst

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SUMMARY

- **Data Analyst with 4+ years of experience** delivering data-driven insights, automation, and BI solutions across **financial services, consulting, and education** domains.
- Proficient in **SQL, Python, R, and SAS**, with expertise in **predictive modeling, forecasting (ARIMA, RNN), and statistical testing** to improve decision-making accuracy.
- Skilled in building **interactive dashboards (Power BI, Tableau, SSRS)** and automating ETL workflows with **Snowflake, Databricks, AWS, and Azure**, streamlining reporting cycles by 40–60%.
- Experienced in **data governance, compliance, and audit reporting**, ensuring **97%+ data quality** and regulatory readiness.
- Recognized for **research contributions** on advanced forecasting models and for translating complex datasets into **executive-level insights** that drive cost savings and operational efficiency.

SKILLS

Data Analysis & Statistics: Advanced Excel, SQL, Python (Pandas, NumPy), R Programming, SAS, Descriptive & Predictive Analytics, Statistical Modeling (Regression, ANOVA, Hypothesis Testing), Time Series Forecasting (ARIMA, LSTM), A/B Testing, KPI Monitoring

Data Visualization & Business Intelligence: Power BI, Tableau, Microsoft Fabric, Google Looker Studio, Kibana, Datadog Dashboards, OpenSearch, Interactive Dashboards, Executive Reporting, Performance Tracking & Alerting

Databases & ETL Pipelines: PostgreSQL, MySQL, SQL Server, Snowflake, BigQuery, Databricks, DBT, SQL Workbench, Data Cleansing & Transformation, Data Wrangling, ETL Development, Data Migration

Machine Learning for Analytics: Predictive Modeling, Risk Scoring, Anomaly Detection, Classification & Clustering, Model Evaluation & Validation, Forecasting with ARIMA & RNNs

Cloud Data Ecosystem: AWS (S3, Redshift, CloudWatch), Microsoft Azure, Google Cloud Platform, Cloud-based Data Pipelines, Scalable Storage & Reporting Environments

Data Governance & Compliance: Data Quality Assurance, Metadata Management, Audit Readiness, Compliance Reporting, Documentation for Data Pipelines & Risk Controls

Collaboration & Delivery: Agile & Scrum, Jira, Confluence, Git, Stakeholder Communication, Requirements Gathering (BRD/FRD), Executive Presentations

EDUCATION

University of New Haven | USA

Aug 2023 – May 2025

Master of Science in Data Science

Relevant Coursework: Mathematics for Data Science, Data Analysis, Statistics, Artificial Intelligence (AI), Data Science, Machine Learning, NLP, Deep Learning, Data Engineering, Power BI

University of Mumbai | India

Aug 2020 – May 2022

M.Sc. in Information Technology

Relevant Coursework: Data Science, Full-stack Web Development, Advanced IoT, Cloud Computing, Computer Vision, AI

University of Mumbai | India

June 2016 – Sep 2019

B.Sc. in Information Technology

Relevant Coursework: Object-Oriented Programming, Procedure-Oriented Programming, Java, Python, Data Analysis, Embedded Systems, IoT, Discrete Mathematics, Database Management Systems

EXPERIENCE

Data Analyst Intern | University of New Haven | USA

Sep 2024 – Present

- **Forecasted IT support ticket volumes** using **ARIMA** and **Prophet models** in **Python**, enabling leadership to optimize staff allocation and reduce **MTTR by 18%** across university IT operations.
- Designed **Tableau** and **Power BI dashboards** to track **student engagement**, academic outcomes, and IT utilization, accelerating reporting cycles by **40%** and supporting real-time decisions.
- Integrated **machine learning models (logistic regression, random forest)** into **student retention research**, improving predictive accuracy by **12%** for academic planning initiatives.
- **Automated recurring compliance and performance reports** with **SQL** and **Python scripts**, saving **5+ analyst hours weekly** and improving timeliness of IT reporting.
- Developed a **data governance framework** for student and IT support records, raising **accuracy and audit readiness** to **97%+**.
- Partnered with faculty on **grant-focused analytics**, producing insights that helped secure **\$50K** in additional research funding for technology initiatives.

Research Assistant | University of New Haven| USA

Aug 2022 – Jul 2023

- Collected, cleaned, and analyzed **5K+ survey responses** and **institutional datasets** using **Python (Pandas, NumPy)** and **R**, driving **faculty-led publications** on **student engagement** and retention.
- Conducted **statistical modeling (logistic regression, ANOVA)** to study relationships between **course delivery methods** and **retention**, improving predictive accuracy for **enrollment planning** by **12%**.
- Built **Tableau** and **Power BI** dashboards to visualize **academic trends** across **7+ programs**, giving department heads improved visibility into **student outcomes** and resource usage.
- **Automated reporting tasks** with **SQL scripts**, reducing manual reporting time from **6 hours to under 1 hour** weekly.
- Standardized **survey and institutional data processes** into a **governance framework**, improving **data integrity** to **97%+** and strengthening **academic reporting** reliability.
- Authored **data-driven research findings** for **publications** and **grant proposals**, contributing to **\$50K+ funding** for the department.

Data Analyst | KPMG| India

Aug 2022 – Jul 2023

- Automated **compliance reporting** by developing **SSIS pipelines** and **Power BI dashboards**, cutting preparation from **4 days to 1 day** and ensuring **100% audit readiness**.
- Conducted **root cause analysis** and **multivariate regression** on financial and operational data using **SAS** and **Python**, uncovering inefficiencies that drove **\$250K+ cost savings** across service centers.
- Consolidated datasets from **Snowflake, PostgreSQL, and Excel** into a unified **data warehouse**, reducing preparation time by **60%** and improving accessibility for audit teams.
- Deployed **ETL workflows** on **AWS (S3, Redshift, Lambda)** to automate compliance data ingestion, reducing processing time by **35%** and enabling **scalable reporting**.
- Designed **executive-level dashboards** in **Power BI** for compliance and KPI monitoring, improving reporting transparency and increasing **C-suite adoption** by **45%**.
- Built **predictive risk-scoring models** leveraging Python (scikit-learn) and **SAS**, enhancing prioritization of high-risk controls by **27%** and strengthening the firm's **risk management framework**.
- Enhanced **data quality** through **Python-based cleansing, normalization, and validation scripts**, achieving **97%+ integrity** across audit-critical datasets.
- Created **SSRS-based compliance reports** covering **200+ risk controls**, reducing delays in risk assessments and ensuring end-to-end **audit alignment**.
- Partnered with **audit managers and stakeholders** to refine BI solutions, reducing **post-deployment change requests** by **20%** and increasing solution adoption.
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Data Analyst | Element Fleet Management, USA- (Tata Consultancy Services)| India

Dec 2019 – Jun 2021

- Analyzed **IT operations data, access logs, and incident records** using **SQL** and **statistical methods**, identifying recurring root issues that reduced **repeat incidents** by **22%** and decreased helpdesk escalations.
- Built **Tableau dashboards** to monitor **SLA adherence, backlog trends, and system uptime**, increasing reporting efficiency for executives by **35%** and enabling real-time insights.
- Designed and deployed **SQL-based ETL pipelines**, integrating **Snowflake** to consolidate IT operations data across domains, reducing reporting lag from **48 hours** to near real-time and improving scalability.
- Implemented **time-series anomaly detection models** in **Python**, proactively flagging irregularities and preventing **12+ critical outages** within a single year.
- Automated **SLA and compliance reporting** by integrating **Tableau with ServiceNow**, saving **40 analyst hours per quarter** during regulatory audits.
- Strengthened **IAM compliance monitoring** by tracking access violations, improving **enterprise-wide compliance rates** from **85% to 98%**.
- Streamlined **ticketing workflows** in collaboration with IT operations teams, raising **SLA adherence** from **78% to 92%** and reducing **average resolution time** by **25%**.
- Documented **ETL pipelines, governance workflows, and audit processes**, ensuring **100% traceability** and enabling faster onboarding for new analysts.

RESEARCH

- Published research paper at ASEE-NE 2025 on forecasting international student enrollment using ARIMA and RNN models. The study leveraged U.S. enrollment data (1949–2023) and University of New Haven trends to predict future enrollments with up to 92% accuracy. Developed a plug-and-play forecasting tool with Python and Power BI, enabling scenario analysis for universities and policymakers to drive data-informed planning and funding decisions.

GoogleScholar:https://scholar.google.com/scholar?hl=en&as_sdt=0%2C36&q=siddhant%2Balhat%2Brajendra&oq=%23d%3Dgs_qabs&t=1748316159166&u=%23p%3D6BC8V78Hv5wJ

CERTIFICATION

- Data Analytics Foundation, Advance Excel, Power BI LinkedIn Learning, SQL LinkedIn Learning, Python LinkedIn.