

# Sagar Chitre

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## SUMMARY

Results-oriented Data and Business Analyst with 3+ years of experience leveraging data analytics, SQL, and BI tools to drive actionable insights and optimize business performance. Skilled in translating complex data into clear, strategic recommendations, automating workflows, and designing dashboards that enhance decision-making.

## WORK EXPERIENCE

### Illinois Institute of Technology, Chicago - Research Assistant - Analytics Aug 2024 - Present

- Designed and deployed 10+ interactive dashboards using **Power BI**, **Tableau**, and **SQL**, significantly improving communication flow by 40% and reducing data discrepancies by 35% across academic and administrative departments.
- Led university-wide data initiatives, including research tracking and automated reporting pipelines using **Python**, optimizing strategic decision-making and reducing report generation time by 20% across teams.
- Directed academic operations for 75+ students by managing complex end-to-end data workflows, ensuring timely deliverables, and enhancing collaboration through well-documented, reproducible analytical code.
- Strengthened institutional data governance practices by maintaining clean, high-integrity datasets and aligning data operations with university-wide goals, enabling precise, data-driven decisions for senior leadership.

### Extern, Webacy, San Francisco - Data Analyst Sep 2024 - Nov 2024

- Boosted customer segmentation accuracy by 20% using **K-Means Clustering** in **Python** on 500+ real-world records, enabling more targeted strategies and improving marketing-product alignment.
- Built and maintained customized **Tableau** dashboards to visualize real-time KPIs and critical business metrics, streamlining decision-making and enhancing executive-level intelligence efforts.
- Executed rigorous **SQL-based** data quality audits, achieving 99% accuracy across complex, high-volume datasets while implementing scalable reporting systems that improved team efficiency by 10%.
- Collaborated closely with product, marketing, and engineering teams to integrate data insights into strategic planning, driving roadmap development with clear, actionable, data-backed recommendations.

### WNS Global Services, India - Business Analyst Aug 2021 - Jun 2022

- Extracted, cleaned, and analyzed large-scale enterprise datasets using **SQL**, identifying critical operational bottlenecks and data inconsistencies that led to a 20% increase in process efficiency and accuracy for client reporting.
- Designed, developed, and maintained dynamic **Power BI** dashboards to provide real-time insights into business performance metrics, enabling senior management to make faster, data-driven decisions and reducing report generation time by 30%.
- Created complex data models and automated ETL workflows using **Power Query**, **DAX**, and **SQL scripts**, streamlining monthly reporting processes and ensuring data accuracy across multiple departments and systems.
- Led in-depth ad hoc analyses by combining **Excel** pivot tables, **SQL** queries, and **Power BI** visualizations, translating raw data into actionable insights that supported strategic client initiatives and improved cross-team collaboration.

### The Sparks Foundation, India - Data Analyst Intern Mar 2021 - Jul 2021

- Analyzed 105K+ customer records using **SQL**, **Excel**, and **Python (Pandas, NumPy)** to uncover behavioral patterns and performance gaps, resulting in a 12% improvement in business intelligence and data-driven decision-making across departments.
- Developed interactive dashboards and automated reporting systems using **Tableau**, **Power BI**, and **Google Data Studio**, increasing reporting accuracy, executive visibility, and reducing manual effort by 18% across teams.
- Performed advanced customer segmentation and clustering using **scikit-learn**, **Matplotlib**, and **Seaborn**, enabling highly personalized marketing strategies that improved campaign engagement by 15% and customer retention metrics.

## PROJECTS

### Urban Mobility Patterns

- Developed a scalable data pipeline using AWS services (S3, SageMaker, Lambda, Glue, Athena) to automate data extraction and real-time querying of transportation patterns. Utilized AWS Athena for insightful analysis, and presented findings using Power BI visualizations to drive data-driven decision-making.

### Cost Analysis Dashboard

- Designed and developed interactive Tableau dashboards to analyze team budgets and logistics costs, providing actionable insights to optimize resource allocation. Utilized publicly available Kaggle datasets to synthesize data, enhance financial strategy, and monitor competitive trends for organizational success.

## EDUCATION

### Illinois Institute of Technology, Chicago - Master of ITM, Data Analytics

### University of Mumbai, India - Bachelor of Technology

## SKILLS

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|-----------------------|--|
| Programming Languages | : Python(Pandas, NumPy, Matplotlib, Seaborn), R, SQL, Java, JavaScript   |
| Data Visualization    | : Power BI, Tableau, Excel (Pivot Tables/VBA), Snowflake   |
| ML & Statistics       | : K-Means Clustering, Regression Analysis, Predictive Modeling, Statistical Analysis, Time Series Forecasting                                |
| Cloud Services        | : AWS (S3, SageMaker, Lambda, Glue, Athena), Azure   |
| Business Intelligence | : Data Cleaning & Preprocessing, Data Integration, Data Modeling, Data Warehousing, Looker Studio, Data Storytelling                         |
| Certifications        | : Salesforce Certified AI Associate, AWS Certified Cloud Practitioner, Google Data Analytics Professional Certificate, Lean Six Sigma by PMI |