

Siddharth Solanki

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SUMMARY

Data Analyst with **4+ years** of experience in transforming complex datasets into actionable insights to drive business decisions. Proficient in **Python, R, SQL**, and advanced statistical analysis, with expertise in data visualization tools such as **Tableau** and **Power BI**. Skilled in **ETL** processes, **data cleaning**, and creating **predictive models** to optimize business performance. Adept at collaborating with cross-functional teams to identify key metrics, design dashboards, and streamline reporting systems.

WORK EXPERIENCE

JPMorgan Chase & Co. | NY, USA | Data Analyst **September 2023 - Present**

- Optimized decision-making by developing predictive models with **Scikit-learn**, automating text analysis through **NLP techniques**, and leveraging **Python** for efficient data processing, achieving a **35%** improvement in analytical workflows and strategic insights.
- Improved predictive analytics by applying **machine learning** models in **R**, visualizing trends with **ggplot2**, and automating statistical analysis, resulting in a **25%** increase in model accuracy for insights.
- Enhanced data pipeline efficiency by leveraging **AWS S3** for storage, automating **ETL** workflows with **Glue**, and optimizing queries using **Athena**, reducing data processing time and improving analytical accessibility.
- Designed data transformation by implementing **CTEs** in **PostgreSQL**, enhancing **ETL workflows** with efficient data wrangling and cleaning, leading to a **50%** improvement in query performance and reporting accuracy.
- Streamlined business reporting by designing interactive **Power BI** dashboards, optimizing calculations with **DAX**, and integrating **Excel** for advanced data analysis, leading to a **30%** boost in data-driven decision-making speed.

First Alliance Bank Z Ltd. | Lusaka, Zambia | Data Analyst **November 2020 - June 2022**

- Customized project execution by implementing **Agile** and **SDLC** best practices, enhancing **time management**, refining **user stories**, and improving **problem-solving**, leading to a **25%** boost in sprint efficiency and on-time delivery.
- Transformed raw data into compelling insights by extracting and visualizing data in **Tableau**, enhancing reporting with **Excel**, and applying **storytelling techniques**, leading to a **45%** increase in **stakeholder** engagement and decision-making speed.
- Automated data processing by leveraging **SAS Macros**, optimizing queries with **SAS SQL**, and streamlining analytics workflows in **SAS**, reducing report generation time and improving data accuracy.
- Boosted **predictive modeling** by integrating **Python** and **Machine Learning**, optimizing data manipulation with **Pandas** and **NumPy**, and leveraging **MySQL** for efficient storage, leading to a **30%** improvement in model performance.
- Expanded process efficiency by applying **Six Sigma** and the **DMAIC methodology**, conducting hypothesis testing with **ANOVA**, and performing in-depth statistical analysis, reducing defects and enhancing quality control.

Airtel Africa | Lusaka, Zambia | Junior Data Analyst **July 2019 - October 2020**

- Raised **data storytelling** by leveraging **Python** for analysis, creating insightful visualizations with **Matplotlib** and **Seaborn**, leading to a **30%** improvement in trend identification and business insights.
- Optimized decision-making by performing **geospatial analysis** in **Tableau**, integrating **Excel** for **data management**, and visualizing trends through **bar charts**, **line charts**, and **scatter plots**, increasing report clarity.
- Increased experiment accuracy by conducting **A/B testing**, uncovering patterns through exploratory data analysis (**EDA**), and applying statistical summarization, leading to a **25%** boost in data-driven business strategies.
- Strengthened **predictive modeling** by utilizing **Alteryx** for data preparation, applying **R** for **statistical analysis**, and enhancing forecasting accuracy, resulting in a **35%** improvement in business predictions.
- Boosted database efficiency by implementing **SQL** stored procedures, optimizing queries through indexing, and improving overall performance, reducing query execution time and enhancing data retrieval speed.

TECHNICAL SKILLS

Methodologies: SDLC, Agile/Scrum, Kanban, Lean, CRISP-DM, Six Sigma.
Core Languages & Libraries: Python (Pandas, NumPy, Matplotlib, Seaborn, SciPy, Statsmodels), SQL (Window Functions, CTEs, Stored Procedures, Indexing & Optimization), R (Tidyverse, dplyr, ggplot2, Shiny), SAS (Base SAS, SAS SQL, SAS Macros).
Cloud Technologies: AWS (Redshift, S3, Glue, Athena), Azure (Synapse Analytics, Data Factory, Cosmos DB), Google Cloud (BigQuery, Dataflow, Cloud Storage).
Database Technologies: MySQL, SQL Server, PostgreSQL, MongoDB, Snowflake, BigQuery, Redshift.
Data Processing & ETL: Apache Spark, Apache Airflow, Talend, Informatica, Alteryx, dbt.
Data Visualization Tools: Tableau, Power BI, MS Excel, Looker, Google Data Studio, QlikView.
Statistical & Data Analysis: A/B Testing, Hypothesis Testing, Regression Analysis, Time Series Analysis, Data Wrangling, Exploratory Data Analysis (EDA), Predictive Analytics.
Machine Learning & AI for Data Analysis: Scikit-learn, AutoML, Feature Engineering, NLP.
Big Data Technologies: Hadoop, Spark, Kafka, Hive, Databricks.
APIs & Web Scraping: RESTful APIs, Web Scraping (BeautifulSoup, Scrapy, Selenium).

PROJECTS

- Bay Area Flood Prediction:** Led the creation of a machine learning model for flood forecasting in the Bay Area with 85% accuracy, integrating real-time weather projections and historical flood records on cloud (AWS) to deliver zip-code level forecasts through a CI/CD pipeline, reducing data processing time by 50% and significantly improving local flood preparedness and response strategies.
- Marketing Campaign Optimization:** Leveraged Marketing Analytics and segmentation to build a predictive model and Tableau dashboard, identifying high-potential customer segments for a gold membership offer. Conducted behavioral data analysis to reduce campaign costs and enhance sales through targeted strategies based on customer preferences and purchase behaviors.

EDUCATION

Masters of Science in Data Analytics,
San Jose State University, San Jose, CA, USA.
Bachelors of Engineering in Computer Science,
Jaipur Engineering College & Research Centre University, India.