Sayali Borate

Santa Clara, CA 95050

669-292-4745 | sborate@scu.edu | linkedin.com/in/sayali-borate/ | github.com/MiSayali | sayalii-portfolio.netlify.app

EDUCATION

Santa Clara University | Master of Science in Information Systems | GPA: 3.9 / 4.0 — Santa Clara, CA
Coursework: Data Analytics(Python), Machine Learning, Big Data Modeling and Analytics, Financial Accounting — June 2025

Savitribai Phule Pune University | Bachelor of Engineering in Computer Engineering | GPA: 4.0 / 4.0 — Pune, India
Coursework: Statistics, Calculus, Data Structures, Database Management, Data Science, Natural Language Processing — June 2023

Savitribai Phule Pune University | Honors in Artificial Intelligence & Machine Learning | GPA: 4.0/ 4.0 — Pune, India
Coursework: Artificial Intelligence, Machine Learning, Deep Learning — June 2023

SKILLS

Programming Languages: Python, SQL, R, NoSQL, C++, Java, JavaScript
Databases & Data Warehouses: MySQL, MongoDB, Snowflake
Big Data & Cloud Platforms: AWS, PySpark, Data Build Tool(DBT)
Data Visualization & Business Intelligence: Tableau, Power BI, Sigma Computing, Excel, Google Sheets
Data Science & ML Libraries: NumPy, Pandas, Matplotlib, Seaborn, NLTK, scikit-learn, Keras, TensorFlow, Selenium
Additional Tools & Methodologies: Jupyter Notebook, Git, JIRA, MS Office, RESTful API, Agile
Non-technical Skills: Problem Solving, Statistical Analysis, System Design and Analysis, Data Modeling, Business Insights

EXPERIENCE

Data Analytics CoOp Intern| Druva — September 2024 - Present, CA

- Created a cost-saving POC to align email data with sales opportunities using SQL to streamline sales tracking and forecasting
- Deployed Activepieces on **AWS EC2** as a POC to optimize workflow automation, demonstrating potential for a **30% reduction in operational costs** by minimizing dependency on third-party automation tools
- Extracting, transforming, and integrating email data with existing propensity models and performing **email sentiment analysis** to improve churn prediction accuracy

Data Analytics Intern | Druva — June 2024 - September 2024, CA

- Created a **Streamlit app** for automatic **Snowpipe** creation, enabling real-time ingestion of **AWS S3** bucket data into **Snowflake** warehouse, improving **operational efficiency** by **12%** and reducing manual data handling time by **5%**
- Designed and implemented **dbt models** for data ingestion, data transformation and data modeling, streamlining **ETL** processes from external sources and improving **data pipeline efficiency by 16%**
- Developed and monitored **KPIs** using **Sigma Computing dashboards**, tracking service status and unused data models, providing system performance visibility
- Leveraged **Zapier** to automate reporting workflows, reducing manual intervention and ensuring timely updates for the team

Data Science Intern - Part of MSIS curriculum | The Vanguard Group — January 2024 - June 2024, Remote

- Performed **regression analysis** on self-designated benchmarks and actual mutual fund performance to identify discrepancies
- Employed **data mining and web scraping** with **Selenium** to extract and clean financial data from various sources
- Applied **prompt engineering** for benchmark information extraction from yfinance with an **80%** success rate
- Implemented **SARIMAX** model for time-series analysis, forecasting and performance evaluation
- Provided benchmark optimization solutions, leading to informed investment decisions with **2-3%** increase in potential returns

Machine Learning Engineer | Josh Software — June 2022 - June 2023, India

- Architected a Python code automation solution by incorporating **encoder-decoder** transformers with **LSTM cells**, with a syntax error detection and correction accuracy of **72%**, amplifying code efficiency and productivity
- Applied **ETL, data preprocessing, feature engineering,** and **data wrangling** to prepare GitHub data for analysis
- Spearheaded a team of 4 fellow students to achieve project goals and deadlines
- Drove collaborative efforts with the Co-founder and Director to discern project requirements and strategic objectives, resulting in streamlined project execution and enhanced alignment with company goals

IoT Intern | Bolt IoT — January 2022 - March 2022, India

- Developed a web app using **Python** and **Flask** for backend, Arduino IDE and ultrasonic sensors for car detection, **SQLite** for data storage, and **Vue JS** for the frontend, optimizing parking spot discovery & reducing time, fuel consumption by 25%

ACADEMIC PROJECTS

Tableau Dashboard: Road Accidents Analysis | (Tableau - Hexbin maps, Donut charts)
Leveraged time-series analysis and dynamic visualizations to identify accident trends, leading to a 5% reduction in road accidents

Airbnb Price Prediction and Recommendation | (Python - Pandas, NumPy, Matplotlib, scikit-learn, Keras)
Built a price prediction and cosine similarity based recommendation system, achieving a prediction accuracy of 70%

Hospital Dataset Analysis | (Python - Pandas, NumPy, Matplotlib, scikit-learn)
Performed regression analysis on patient records, deriving mortality trends & informing hospital operations, improving them by 60%

Netflix Database Design | (SQL)
Designed a scalable database schema for Netflix, optimizing user data and content metadata management for efficient analysis

CERTIFICATIONS

Advanced Google Analytics, Google - February 2024; **Google Data Analytics**, Google - August 2024