

# SWANAND BARSWADE

619-552-5943 • swanandsb@gmail.com • [GitHub](#) • [LinkedIn](#) • [Portfolio](#)

## Skills

- **Programming Languages:** Python, SQL, R, C, C++, Java
- **Machine Learning:** Scikit-learn, NumPy, Sklearn, Pandas, Linear Regression, Logistic Regression, XGBoost, Anomaly Detection, Database Management, Unstructured Data
- **Tools:** Android Studio, VSCode, Jupyter, Git, Google Collab
- **Cloud:** Google Cloud Platform, AWS, QuickSight, Docker
- **Data Visualization:** PySpark, geoPy, Swifter, Matplotlib, Seaborn, Streamlit, Plotly, Altair Charts, Folium, React

## Work Experience

**Data Scientist, Evolution International** – New York, NY 06/2023 to Present

- Designed & implemented a data pipeline to facilitate financial analysis of the organization, leveraging **BigQuery** as the database and **Celonis** as the analysis tool resulting in 31% increase in revenue
- Created automation for the process using **Jenkins** and **Airflow DAGs**, processing a massive 5TB of data daily
- Engineered a solution in Python and R to pre-process data from **Excel** which saved approximately 3 hours of developer's time

**Data Science Intern, Evolution International** – New York, NY 06/2022 to 08/2022

- Utilized **Tableau** software to develop over 47 data visualizations, strategically enhancing data comprehension by 31%.
- Applied supervised and unsupervised learning techniques for actionable insights, boosting revenue by 17% via data-driven strategies.
- Efficiently processed and cleaned 7+ terabytes of data on **AWS** using scripting, resulting in a 41% reduction in data processing time, effectively addressing a critical performance problem while keeping stakeholders informed of the status of the product.

**Teaching Assistant, SDSU** – San Diego 08/2021 to 05/2023

- Researched on Python project to calculate velocity of blood by analyzing blood flow videos in veins by **Image processing** techniques
- Proved with accuracy of 81% that blood flows faster from middle of blood vessel using optical flow algorithm of the **OpenCV library**
- Conducted **ad-hoc statistical analysis** using Python libraries to evaluate the efficacy of current medications in treating pediatric patients with bipolar disorder by analyzing correlations between subcortical brain regions

**Data Analyst, Capgemini Technologies** – Pune, India 07/2020 to 07/2021

- Utilized technical skills to enhance applications, transforming, validating, and loading big data into storage systems using the **ETL tool Fivetran**. This written solution optimized data processes.
- Demonstrated leadership by collaborating with the testing team, overseeing end-to-end testing, and implementing process improvements in applications. Standardized coding practices and reduced running time by 21.4% through **quantitative analysis**.
- Applied advanced analytics and statistics to create 13 data cubes and **OLAP** models, advancing data analysis by 9%. This self-driven innovation contributed to the development of predictive models for future growth.

## Projects

**Covid-19 Predictive Data Analytics** | *Tableau, Python, R, AWS, Streamlit*

- Analyzed the stagewise pandemic data for the USA in Python/R using linear regression and spark on parameters like age, gender, ethnicity, etc. and visualized the weekly new cases and deaths using Tableau, Streamlit while processing was done on AWS.

**Finding Ideal Location for a New Restaurant** | *Jupyter Notebook, Machine Learning Models, Google Maps API*

- Scrutinized the Yelp dataset by applying k-means algorithm, VADER lexicon, logistic regression to find parameters that ensure the restaurant will be successful and used Google Maps API to find ideal locations.

**Advertisement Recommendation System** | *HTML, CSS, JavaScript, PHP, MySQL, SQL*

- Created a website to centralize information about advertisement platforms with their charges sourced from the users resulting in 53% increase in efficiency and accuracy of data storage and extraction as well as designed a SQL database for system.

## Education

**Master of Science: Computer Science**, San Diego State University, San Diego, CA (GPA: 3.8) 08/2021 to 06/2023

Coursework: Data Science, Cloud Computing, Algorithm Analysis, Data Management, Computer Vision, Artificial Intelligence

**Bachelor of Engineering: Computer Science**, University of Pune, India (GPA: 3.9) 08/2016 to 06/2020

## Certifications

- AWS (Amazon), Machine Learning (IBM), Core Java (Zensar Technologies), Data Science (Udemy), C/C++ , PHP, SQL (IIT Bombay)