

## SUMMARY

Two years of professional experience with background in Business Analysis, Analytics, Data Analysis, Database Management. Diverse global project experience involving data driven decision making, advanced analytics, data wrangling and visualization techniques, with proficiency in MySQL, Python, SAS, Tableau, QlikView, Power BI, Jupyter Notebook, Excel.

## EDUCATION

**The State University of New York - Binghamton** | MS in Computer Science **Aug 17-Aug 19**  
**Savitribai Phule Pune University - Pune, India** | BE, Electronics & Telecommunication **Aug 11-May 15**  
**Relevant Coursework** - Data Mining, Database Systems, Algorithms, Machine Learning, Design Patterns, Data Analysis.

## TECHNICAL SKILLS

**Data Analysis Tools:** Advance Excel, Predictive Analytics, Jupyter Notebook, SAS Enterprise Miner, MATLAB.

**Programming Languages:** Python, SQL, C, Java, SAS.

**Visualization Tools:** Tableau, Jupyter Notebook, Power BI, QlikView, D3.js.

**Databases:** Oracle, Postgres, MySQL, MS Access, MS SQL Server.

**Big Data:** Hadoop-HDFS, Pig, Hive, MapReduce, YARN, Spark.

**Other:** Git, Apache Kafka, TensorFlow, NumPy, Pandas, Scikit-Learn, MongoDB, Linux Kernel.

## PROJECTS

**Route Planner** **Mar 19 – May 19**

- Build a route-planning algorithm like the one used in Google Maps to calculate the shortest path between two points on map using A\* search algorithm. A\* algorithm is used to efficiently plot a path between multiple points called nodes
- Users enters two coordinates with x and y between 0 and 100 then algorithm can calculate and draw the shortest path from point a to point b. Map is drawn using the io2d library and the shortest path is rendered in blue.
- A\* search algorithm used two properties of Map objects called intersections and roads. The intersections are represented as dictionary. The roads property is a list that contains the list of intersections.

**Increasing Real Estate Management Profits: Harnessing Data Analytics** **June 19 – Sept 19**

- Draw upon my new MySQL database to extract relevant data from a real estate database.
- Experience in implementation of data analysis in Excel to identify the best opportunities for Watershed to increase revenue and maximize profits, while managing any new risks.
- Designed interactive dashboards using Power BI and proposed cost-benefit analysis, increasing overall profit by 20%.
- Recommend to company executives an innovative business process change for Watershed based on my data analysis.

**Machine learning algorithms implementation** **Feb 18 - May 18**

- Experience in machine learning algorithms like Decision Tree, Random Forests, Neural Network, Logistic Regression.

## WORK EXPERIENCE

**World Compliance Technologies – Pune, India** **Data Analyst** **Aug 15 - June 17**  
**Analyze A/B Test Results** **Dec 15 - May 16**

- Using Python, accessed the quality of data and tidiness, then cleaned it. Documented the wrangling efforts in a Jupyter Notebook. AB Testing and regression methods used to decide if the company should launch a new webpage.
- Built model by performing Hypothesis Testing, T-tests and A/B test, Multiple Linear Regression, Logistic Regression to track customer interests which helped over 1500 advertisers to gain revenue growth through targeted marketing.

**Wrangle and Analyze Data** **June 16 – Dec 16**

- Experience in web scraping and accessing data from various API. Managed extraction, filtration and integration of data acquired through multiple source systems including flat files (e.g. TSV), HTML files, TXT files, and JSON files.
- Identify data quality issues and categorize them using metrics: validity, accuracy, completeness and consistency.
- Dataset had three major problems. First it has missing value, second is Untidy dataset and third is quality issues. Solve all the above problem by defining, coding and testing method in Python scripting.
- Analyzed customer behavior and billing date for new product and service to enhance customer retention rate by 30%.

**Data Visualization** **Jan 17 – June 17**

- Experience in the entire data analysis process, starting by posing a question and finishing by sharing the findings.
- Python data visualization tools used to explore the dataset for its properties and relationships between variables.
- Experience in Implementation of Univariate exploration, Bivariate exploration, Multivariate exploration of data, Plot Matrices, Feature Engineering. Perform Exploratory and Explanatory Visualization storytelling with data.
- Designed interactive dashboards using Tableau and proposed cost-benefit analysis, reducing overall cost around 25%.