

# SURYA MANIAN

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## EXPERIENCE

**Junior Data Analyst** Spade Labs Pvt. Ltd.

May 2018 - September 2018

- I was part of an early-stage enterprise that aimed to target clients in learning institutions by offering project ideas and workshops on robotics.
- I utilized my data analysis skills to segment a large dataset with 200,000+ data items and uncovered unique insights through visualization and statistical analysis.
- Generated PowerBI dashboard that examines large datasets, accurately predicted sales and automated the sales prediction using MySQL and AWS server and played a role in the development of analytical models by the team.
- Identified potential clients and prepared a report, associated with a team of 4 members by assigning tasks using Jira and Confluence and was responsible for developing and preparing management dashboards.
- Increased profit between 9% to 12% by forecasting 2x more accurate predictions and explored the correlations between customer attributes (Predictive Analytics).

## EDUCATION

**Master of Engineering, Software Engineering**, Concordia University, Montreal January 2021 - December 2022  
GPA: 3.16

**Bachelor of Technology, Computer Science**, SRM University, Chennai, India.  
GPA: 3.27

## SKILLS

<b>Languages</b>	Python, R, Java, C++, Javascript, HTML, CSS
<b>Databases</b>	SQL, MongoDB Atlas, PostgreSQL
<b>Visualization</b>	Tableau, Power BI, Looker
<b>Version Controls</b>	Docker, Git, Jira
<b>Frameworks</b>	Scikit Learn, Pytorch, Matplotlib, Seaborn, d3.js, Tensorflow, PySpark, Rasa
<b>Cloud</b>	Azure, AWS
<b>IDE Tools</b>	Pycharm, Eclipse, Jupyter Notebook, Google Colab
<b>Others</b>	Data Visualisation, ETL, Supervised and Unsupervised Machine Learning, Statistics
<b>Hard Skills</b>	Exploratory Data Analysis, Statistical Analysis, Microsoft Excel
<b>Soft Skills</b>	Communication, Accountability, Result Oriented, Continuous Learning Mindset

## PROJECTS

**Cricket Data Analytics for the Best 11 Players** Power BI

[Power BI Report](#)

- This project involved web-scraping ICC data using Brightdata, cleaning and transforming the data using Pandas and Power Query, modeling the data using DAX, and presenting the results through Power BI visualizations and reports. The final report highlights the top 11 players based on performance metrics.

**Netflix Data Analysis** Tableau

[Tableau Public](#)

- This project aims to provide an in-depth analysis of Netflix's movies, and TV shows data using Tableau. The insights covered in this project were: Top 10 Genres in a Horizontal Bar Chart, Ratings Distribution in a Vertical Bar Chart, Movies, and Shows Distribution using a Packed Bubble Chart, Total Movies and TV Shows by Year using an Area Chart, Total Movies and TV Shows by Country using a Map, and Other Movie Specific Details.

**Chocolate Sales Analysis** Excel

[GitHub](#)

- Visualization of Sales, Boxes, Shipments, Cost, Profit, Month on Month percentile, and Country-wise profit % based on the category of chocolates.
- Analysis of Top Team performance using bubble chart, and top salesman performance using Team Performance Report.
- Features like Category selection using slicers, Integration of category selection with KPI titles, Sorted country pivot data, Sleek formatting of slicers, Dynamic KPI indicators for overall performance, Customizable dashboard to meet specific business needs.

#### **Citi Bike Project Management Analytics** Tableau

[Tableau Public](#)

- The Tableau workbook contains multiple worksheets, each showcasing a different aspect of the analysis. The worksheets include: A map showing the location of Citi Bike stations and the number of bikes available, Bar charts showing the top start and end stations, Line charts showing the usage patterns over time, Histograms and box plots displaying the distribution of trip duration, Dashboards summarizing the insights, and enabling easy navigation between the worksheets.

#### **Student Expenditure Analysis** Power BI

[Power BI Report](#)

- Acquired the data from a dataset containing 9000 data items, Understood the data attribute and KPI (Key performance indicator) and Implemented Tabular and matrix visualization, designed funnel and pie charts, scatter and sand-dance plots, published the report on Power BI cloud service, designed the Master Dashboard, and used the QA feature of Power BI.

#### **Data Extraction from Medical Documents** Python, FastAPI, Google Tesseract, OCR

- Extracting useful Information from a scanned medical or prescription document.

#### **Predicting the Likelihood of E-Signing a Loan Based on Financial History** Python

[GitHub](#)

- Plotting with Matplotlib and Seaborn - Exploratory Data Analysis (EDA)
- Data Manipulation - Used Pandas and Numpy for all of our data formatting steps.
- Classification Models from Sklearn Library (Logistic Regression, Tree, SVM)
- K-Fold Cross-Validation, Grid Search (Parameter Tuning), and Feature Selection algorithms.

#### **Face Mask Detection using Convolution Neural Networks** Python, PyTorch, CNN, Data Cleaning, AI [GitHub](#)

- Data preprocessing: Clean and normalize the data to improve the accuracy of the model.
- Model architecture: Design the architecture of the convolution neural network to effectively classify the images.
- Bias identification and removal: Check for any biases in the data and remove them to improve the fairness of the model.
- Hyper-parameter tuning: Fine-tune the hyper-parameters of the model to increase accuracy.
- K-fold cross-validation: Use K-fold cross-validation to evaluate the performance of the model and avoid over-fitting.

### **ACCOMPLISHMENTS AND CERTIFICATIONS**

**Tableau Desktop Specialist** Tableau — September 2022

[Credential](#)

**Microsoft Certified: Azure Fundamentals AZ-900** Microsoft — October 2020

[Credential](#)

**Data Analytics Virtual Experience Program** Quantum — August 2020

[Credential](#)

**Data Analytics Consulting Virtual Intern** KPMG — July 2020

[Credential](#)

**Data Visualization in Power BI** Datacamp — February 2022

**Google Data Analytics Professional** Google — November 2022

**Software Product Management** University of Alberta - Coursera — November 2020

[Credential](#)

**Software Engineering Virtual Intern** JPMorgan Chase and Co. — July 2020

[Credential](#)