# SURYA MANIAN

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## EDUCATION

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

**Bachelor of Technology, Computer Science**　　　　　　　　　July 2016 - May 2020
GPA: 3.27 SRM University, Chennai, India

## EXPERIENCE

**Junior Data Analyst Intern** Spade Labs Pvt. Ltd.　　　　　　May 2018 - September 2018

- Conducted data analysis for an early-stage enterprise targeting learning institutions by segmenting a dataset of 200,000+ items.
- Uncovered insights through visualization and statistical analysis, and, presented recommendations that increased customer engagement.
- Developed a PowerBI dashboard that accurately predicted sales and visualized key performance indicators, which helped in decision-making and resulted in an increase in sales.
- Collaborated with the team and assigned tasks using Jira and Confluence, resulting in a 25% increase in project efficiency.
- Conducted predictive analytics to explore the correlations between customer attributes and sales, resulting in a 10% increase in customer retention.
- Successfully improved business performance by providing actionable insights and recommendations.
- Delivered presentations, communicating insights in a clear and concise manner.

## SKILLS

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| **Languages** | Python, R, SQL, DAX, VBA, Java, C++, HTML, CSS |
| **Databases** | MySQL, MongoDB Atlas |
| **Visualization** | Tableau, Power BI, Microsoft Excel, Looker |
| **Version Controls** | Git, Jira |
| **Frameworks** | Scikit Learn, Pytorch, Matplotlib, Seaborn, ggplot |
| **IDE & Tools** | Pycharm, Eclipse, Jupyter Notebook, Google Colab, Spyder, Canva, Figma, StarUML |
| **Others** | Data Visualisation, ETL, Supervised and Unsupervised Machine Learning, Statistics |
| **Hard Skills** | Exploratory Data Analysis, Statistical Analysis, Reporting |
| **Soft Skills** | Communication, Time-Management, Result Oriented, Creative, Analytical |
| **Languages** | English (Fluent), French (Beginner), Tamil (Fluent), Hindi (Intermediate) |

## PROJECTS

**Database Analysis and Automation for a Global Hardware Sales Company** SQL　　　　　　GitHub

- Analyzed a 2-million record sales database for a hardware sales company using MySQL Workbench.
- Created queries to generate insights on Monthly Product Transactions, Total Sales Amount, and Yearly Sales Report. Utilized Stored Procedures to automate Monthly Gross Sales Reports and Market badges.
- Analyzed pre-invoice discount report, post-invoice discount report, and net sales report using database views. Analyzed top markets, customers, and products.
- Conducted supply chain analytics by creating a helper table, using triggers, and implementing user accounts and privileges features.

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

- Web-scraping ICC data with Brightdata, cleaning and transforming data with Pandas and Power Query, modeling data with DAX, and presenting results with Power BI visualizations and reports. Final report showcases top 11 players based on performance metrics.

**Sales Analysis: Uncovering Insights and Driving Growth** Power BI                        [PowerBI Report]

- Analyzed chocolate sales data, created a data model, added calculated fields and filters, and developed various visualizations and dashboards to gain insights and improve data understanding.
- Identified top-performing countries, salespeople, and products, as well as opportunities for growth and optimization through filtering by category and team.

**Netflix Data Analysis** Tableau                        [Tableau Public]

- Provides insights on the top genres, ratings distribution, and movie/show distribution. Visualizations included horizontal and vertical bar charts, packed bubble chart, area chart, and map. Overall, the project aimed to provide an in-depth analysis of Netflix's movies and TV shows data.

**Chocolate Sales Analysis** Excel                        [GitHub]

- Visualized Sales, Boxes, Shipments, Cost, Profit, MoM percentile, and Country-wise profit % by chocolate category. Analyzed top team and salesman performance using bubble chart and team performance report.
- Customizable dashboard with features like slicer-based category selection, sorted country pivot data, KPI indicators, and sleek formatting.

**Citi Bike Project Management Analytics** Tableau                        [Tableau Public]

- Analysis, showing Citi Bike station locations and bike availability, charts displaying usage patterns over time, histograms and box plots for trip duration, and interactive dashboards summarizing the insights.

**Student Expenditure Analysis** Power BI                        [Power BI Report]

- Performed data acquisition and implemented various visualizations such as tabular, matrix, funnel, pie, scatter, and sand-dance plots on a dataset of 9000 items. Created a Master Dashboard and utilized the QA feature in Power BI to gain insights into key performance indicators (KPIs).

**Predicting the Likelihood of E-Signing a Loan Based on Financial History** Python                        [GitHub]

- Conducted Exploratory Data Analysis (EDA) using Matplotlib and Seaborn libraries on a a dataset of 10,000 data items. Employed Pandas and Numpy for data manipulation and formatting.
- Utilized Sklearn library to build classification models, including Logistic Regression, Tree, and SVM.
- Employed advanced techniques such as K-Fold Cross-Validation, Grid Search for parameter tuning, and Feature Selection algorithms that gave an accuracy of around 64%.

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

- Preprocessed data through cleaning, normalization, and bias removal to improve accuracy. Designed CNN architecture and fine-tuned hyper-parameters to increase accuracy.
- Evaluated model performance with K-fold cross-validation to prevent over-fitting. The model had an accuracy of 96% and showed precision, recall, and F1 scores of 96%, 99%, and 98% respectively for detecting individuals with masks

## 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** Quantium — August 2020                        [Credential]

**Data Analytics Consulting Virtual Intern** KPMG — July 2020                        [Credential]

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