

SURYA MANIAN

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EDUCATION

Master of Engineering, Software Engineering

January 2021 - December 2022

GPA: 3.16/4.3 Concordia University, Montreal

Bachelor of Technology, Computer Science

July 2016 - May 2020

GPA: 3.27/4.3 SRM University, Chennai, India

SKILLS

Prog. Languages	Python, R, SQL, DAX, VBA, Java
Databases	MySQL, MongoDB
Visualization	Tableau, Power BI, Microsoft Excel
Version Controls	Git, Jira
Frameworks	Scikit Learn, Pytorch, Matplotlib, Seaborn, ggplot
IDE & Tools	Pycharm, Eclipse, Jupyter Notebook, Google Colab, Canva, Figma, StarUML
Other Skills	Exploratory Data Analysis, ETL, Supervised Machine Learning, Statistics, Reporting
Soft Skills	Communication, Time-Management, Result Oriented, Creative
Languages	English (Fluent), French (Beginner), Tamil (Fluent), Hindi (Intermediate)

EXPERIENCE

Data Analyst Intern Ambertag Analytics, Mountain View, CA, USA

May 2023 - present

- Spearheaded the development of 3D mapping Blockly code, streamlining data visualization and analysis processes, while delivering compelling presentations on 3D mapping techniques to stakeholders.
- Conducted in-depth Exploratory Data Analysis (EDA) on voltage datasets, uncovering key insights and providing data-driven recommendations.
- Successfully managed the Saline dataset, conducting voltage visualization and in-depth data analysis, precisely identifying patterns in the voltage difference between catheters and electrodes during 3D mapping.
- Contributed to task execution and script running for efficient log vectorization, improving data processing efficiency.
- Performed domain research, studying relevant research papers and supporting books to provide insights and back the main project.
- Presented findings from research on 3D mapping, demonstrating strong communication and technical skills, along with data visualization expertise.

BI Analyst Intern Spade Labs Pvt. Ltd., Chennai, India

July 2019 - April 2020

- Analyzed 200,000+ record databases using MySQL, generating insights on transactions, total sales, and yearly reports. Automated monthly gross sales reports and market badges.
- Developed Power BI dashboards, analyzed state-wise sales of robotics equipment, identifying purchasing consistency among schools, colleges, and robotic companies. Collaborated with sales and marketing team to increase sales in consistent areas, resulting in a 25% sales increase.
- Created interactive dashboards for accurate sales predictions and visualization of key performance indicators, aiding decision-making.
- Improved project efficiency by 50% through collaboration and task assignment using Jira.
- Implemented data-driven optimization strategies based on customer feedback and market trends, driving the development of customer-aligned product features.

Product Development Engineer Intern Spade Labs Pvt. Ltd., Chennai, India December 2018 - June 2019

- Conducted Python, Arduino, and SQL workshops in universities, Developed a Python course for K-12 students.
- Designed, developed, and edited instructional videos and e-manuals for coding modules.
- Created Python and Arduino-based robotic products, adhering to the manager's specific guidelines.
- Designed posters and flyers, collaborating with the content development team.
- Executed data entry of developed products, and corresponding equipment prices in a spreadsheet. Discussed with the marketing and sales team lead to determine product pricing for maximizing profitability.

PROJECTS

Database Analysis and Automation for a Global Hardware Sales Company SQL [GitHub](#)

- Analyzed a 2-million record sales database using MySQL Workbench, examining pre-invoice, post-invoice, and net sales reports. Conducted market, customer, and product analysis.
- Utilized triggers, helper tables, and user account management for supply chain analytics.

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. The final report showcases the top 11 players based on performance metrics.

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.

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 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

Volunteer Staff Startupfest 2022 Montreal — July 2022

Event Coordinator TEXUS SRM — March 2019 - February 2020

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](#)

Software Product Management University of Alberta - Coursera — November 2020 [Credential](#)