SURYA MANIAN

(514)-619-9199

maniansurya99@gmail.com ⋄ Portfolio ⋄ linkedin.com/in/surya-manian ⋄ www.github.com/maniansurya99

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

Junior Data Analyst Spade Labs Pvt. Ltd., Chennai, India July 2019 - April 2021

- 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.
- Led a team of 5 and 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.

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.

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 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 Quantium — August 2020 [Credential]

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

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