

MADHAVAN VIJAYAKUMAR

DATA ANALYST



[Portfolio website](#)



[LinkedIn](#)



[GitHub](#)



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About me:

Enthusiastic and detail-oriented undergraduate with a strong foundation in data analytics, seeking a challenging role as a Data Analyst to apply analytical skills, statistical knowledge, and proficiency in data manipulation and visualization for informed decision-making.

Education Details:

Govt. Boys Higher Secondary School,
Udumalpet 2013 – 2014
CGPA – 9.2

B.E, MECHANICAL ENGINEERING
Annai Maththammal Sheela Engineering
College, Namakkal 2021 – 2024
Grade - B

DIPLOMA IN MECHANICAL ENGINEERING
Nachi Muthu Polytechnic College,
Pollachi 2014 – 2017
CGPA – 7.8

SOFT SKILLS

- Analytical Thinking
- Problem-Solving
- Detail-Oriented
- Team Collaboration
- Effective Communication

HARD SKILLS

- Programming Languages: Python (NumPy, Pandas)
- Data Visualization: Matplotlib, Seaborn
- Database Management: SQL
- Data Analysis Tools: Visual Studio
- Data Visualization Tools: Excel, Power BI, Tableau
- Statistical Analysis, Descriptive analysis
- R Program

CORE COMPETENCIES:

- Data Collection and Extraction: Collected, cleaned, and preprocessed raw data from various sources. Extracted relevant information from databases, data warehouses, and external sources.
- Data Analysis and Exploration: Performed exploratory data analysis to identify patterns, trends, and anomalies. Used statistical techniques to analyze data and generate actionable insights.
- Data Visualization: Created meaningful visualizations using tools like Matplotlib, Seaborn, Tableau, or Power BI. Developed dashboards to communicate insights.
- Database Management and SQL: Written and optimized SQL queries for data extraction, transformation, and loading.
- Predictive Modeling: Constructed and implemented predictive models using machine learning algorithms. Assessed model performance and refined models for accuracy and reliability.
- Data Cleansing and Transformation: Cleansed and preprocessed data to ensure accuracy and completeness. Transformed raw data into a usable format for analysis and reporting.
- Problem Solving: Identified data-related issues and proactively proposed solutions. Addressed data quality and consistency challenges to maintain data accuracy.
- Data-driven Decision-Making: Provided data-driven insights to support strategic decision-making.

Projects:

PORTFOLIO PROJECTS

BANK LOAN ANALYSIS: [\[Link\]](#) 

This project employs a combination of Excel, SQL, and Tableau to create insightful dashboards and reports, empowering the bank to make informed decisions, assess lending performance, and strategize for the future.

ROAD ACCIDENT ANALYSIS: [\[Link\]](#) 

To develop a comprehensive Road Accident Analysis Dashboard for the years 2021 and 2022, using Power BI, Tableau, and Excel. The dashboard aims to provide insights into total casualties, accident severity, casualties by vehicle type, monthly trends, road types, area/location, day/night incidents, and overall accident statistics.

EXCEL PROJECT

PROJECT MANAGEMENT DASHBOARD: [\[Link\]](#) 

The Project Management Dashboard in Excel provides a centralized view of project-related data, aiding in effective project tracking and management. This dynamic dashboard allows users to monitor project progress, compare planned vs. actual performance, and analyze project status across different managers.

SQL PROJECT

AIR CARGO ANALYSIS: [\[Link\]](#) 

The project successfully implemented various SQL operations and stored procedures to analyze Air Cargo's data, providing valuable insights into customer behavior, route optimization, and revenue generation. The ER diagram facilitated a clear understanding of the database structure. Stored procedures enhanced the modularity and efficiency of repetitive tasks. The project contributes to Air Cargo's goal of improving operational efficiency and customer satisfaction in air travel services.

PYTHON PROJECTS

APP RATING ANALYSIS: [\[Link\]](#) 

Constructed a model to predict app ratings based on various features provided in the Google Play Store dataset. This project contributes to Google Play Store's objective of promoting promising apps by providing a predictive model based on user ratings and other relevant features.

COVID-19 ANALYSIS PROJECT: [\[Link\]](#) 

Developed in multiple versions, the COVID-19 Analysis project employs Python, Pandas, and Matplotlib for a detailed examination of pandemic data. The project provides a comprehensive analysis and visual representation of COVID-19 data, offering insights into the pandemic's impact on countries and continents.

POWER BI PROJECT

INSURANCE DATA ANALYSIS: [\[Link\]](#) 


The objective of the project is to enhance agent knowledge through a supervised predictive framework, focusing on agent segmentation. The Power BI dashboard provides a comprehensive analysis of (KPIs) and detailed insights to facilitate strategic decision-making within the insurance domain.

TABLEAU PROJECT

NETFLIX DATA ANALYSIS DASHBOARD: [\[Link\]](#) 

This project aimed to provide insights into the streaming platform's content, utilizing Tableau for visual representation and exploration. The Netflix Data Analysis Dashboard facilitated a comprehensive exploration of the platform's content. Stakeholders gained insights into the distribution of content across countries, ratings, genres, and trends over the years. The visualizations enhanced decision-making for content curation and strategy.

COURSES AND CERTIFICATE

I am Certified Data Analyst from Simplilearn. [\[Link\]](#) 

LANGUAGES:

TAMIL - [Read, Write, Speak]
ENGLISH - [Read, Write, Speak]
KANNAD - [Read, Write, Speak]

PERSONAL INFORMATION

NAME : Madhavan
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