Data Analyst/ Data Scientist

# MADHAVA KRISHNAN N S

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https://github.com/Madhavananalyst/data_science_projects
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## Summary

As a recent M.Sc. Physics graduate with a strong foundation in Python, Machine Learning, and SQL, I am seeking a data role where I can apply these skills and my passion for problem-solving to real-world data challenges.

## Education

Master of Science - **M.Sc., Physics** (Jul 2022 - May 2024)
The American College, Madurai – 625002

## Skills

- **Python** (Pandas, NumPy, SciPy, MatPlotLib, Seaborn, requests and BeautifulSoup for Data Collection, Data Wrangling, EDA and Data Visualization)
- **Machine learning** (Scikit-Learn: Regression analysis, Classification models and Clustering model)
- **SQL** (MySQL, SQLite)
- **Microsoft Power BI** (Data modelling, Data Wrangling, EDA and Data Visualization)
- **Microsoft Excel** (Data Wrangling and Data Visualization)
- **Statistics and Probability** (Descriptive and Inferential Statistics, Sampling, Hypothesis testing including **A/B testing**)
- Problem solving, Communication, Critical thinking, Team work and collaboration, Time management, Adaptability, Attention to details

## Projects

**BANK CUSTOMER CHURN ANALYSIS AND PREDICTION–** Personal Project

- Developed and implemented predictive models, including Logistic Regression, SVM, KNN, and Decision Tree, for customer churn analysis, achieving accuracy rate of 85%.
- Designed and deployed a comprehensive Power BI dashboard, providing intuitive visualizations to facilitate data-driven decision-making processes and actionable insights for reducing customer churn.
- https://github.com/Madhavananalyst/data_science_projects/blob/main/Bank%20Customer%20Churn%20Analysis%20and%20Prediction.pdf

**ANALYSIS AND PREDICTIVE MODELING FOR SPACEX FALCON 9 FIRST STAGE LANDING SUCCESS–** Guided Project

- Developed and implemented a predictive model leveraging classification algorithms to forecast the landing success of SpaceX's Falcon 9 rocket first stage, optimizing launch operations and cost efficiency.
- Utilized advanced data wrangling techniques, including web scraping and API integration, to gather and preprocess SpaceX launch data, ensuring high-quality inputs for predictive analysis.
- Executed comprehensive exploratory data analysis (EDA) using SQL and visualization tools, extracting actionable insights to inform strategic decision-making for SpaceX's rocket launch operations.
- https://github.com/Madhavananalyst/data_science_projects/blob/main/Winning%20Space%20Race%20with%20Data%20Science.pdf

**AN ANALYSIS OF COSMOLOGICAL MODELS –** Academic Project

- Utilized Bayesian estimation and chi-square minimization methods to estimate the cosmological Parameters of ΛCDM and wCDM models and conducted comparative analysis of the results obtained from both methods and models to assess their accuracy and reliability.
- https://github.com/Madhavananalyst/data_science_projects/blob/main/An%20Analysis%20of%20Cosmological%20Models.pdf

## Certification

**IBM Data Science Specialization**
https://coursera.org/share/a4ac318388ff8c1508003852d29689bf