Chander Mohan

Data Scientist

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SUMMARY

Passionate and dedicated Data Analyst with over 2 years of hands-on experience in data analysis, data extraction, Business Analysis, and data management with expertise in Python, SQL, ETL Pipelines, and qualified professional in Master of Data Science from RMIT University.

SKILLS

Languages: Python, R Programming, SQL, JavaScript

Libraries and Frameworks: TensorFlow, Scikit-learn, Plotly, React JS, RESTful API, LLM, Streamlit

Tools and Platforms: Tableau, AWS, GitHub, ML-Flow, Excel,

DevOps: DVC (Data Version Control), GitLab, GitHub Actions

Work EXPERIENCE

CSIRO / *Data Scientist*   Jul 2023 – Nov 2023

- Developed and implemented innovative data augmentation methodologies for tabular data in the genetics domain and used Tableau dashboards to present the insights and findings to stakeholders.
- Collaborated with team and stakeholders to understand healthcare data and experiment with different techniques and machine learning model to compare the performance.
- By implementing data augmentation methodologies and creating end-to-end pipelines, we have enabled to derive actionable insights from complex healthcare data and enhance the model performance by 80% to 87% by using Mixup Algorithm.

Marlabs INC / *Data Analyst*   Feb 2020 – Aug 2021

- Developed various Dashboards and performed data extraction to significantly enhancing business decision-making processes by analyzing and processing relational data using SQL.
- Collaborated with data scientists, software engineers, and business stakeholders to understand project requirements, gather data, data Management.
- Created data modeling pipeline to ensure data integrity and data storage process.

DCS Technologies / *Data Science Intern*   Aug 2019 – Dec 2019

- Assisted in data collection, cleaning, and preprocessing tasks to ensure data integrity and quality.
- Assessing the performance of machine learning models using appropriate metrics. Fine-tune models to achieve desired outcomes.
- Collaborated with other team members for creating comprehensive reports and summarizing findings.

PERSONAL PROJECTS

Portfolio Website | *Node js, React, HTML, CSS, CI-CD Pipeline*   🌐 chandermohan.xyz

- This portfolio reflects my professional journey, personal projects summary, including a deep dive into React.js for this project.
- Design & Developed Custom Components and used Modern framework and React js APIs.
- Implemented a CI/CD pipeline to automate integration, and deployment processes, ensuring seamless updates and improved development workflow efficiency.

PERSONAL PROJECTS

Electric Vehicle Data Analysis | *Tableau Public, Excel*
- The aim of the Electric Vehicle Data Analysis project was to develop an interactive Tableau dashboard that provides a comprehensive overview of electric vehicle statistics in the USA.
- Utilized advanced Tableau features including filters, parameters, and custom fields to deliver insightful visualizations, such as total vehicles by model year, state distribution maps, and top EV models by make.
- In this Tableau dashboard to visualize electric vehicle data, featuring KPIs such as total vehicles (150,413), average electric range (67.83 miles), and distribution of BEV (77.62%) and PHEV (22.38%) vehicles.

Predicting Liver Cirrhosis Stage | *Feature Engineering, Model Comparison, Data Analysis, Visualization*
- The aim of this project is to build a model that will predict the stage of Liver Cirrhosis with the help of different type of information about patients like medical history, lab reports and other relevant factors.
- Implemented Machine Learning Concepts to predict the stage of Liver Disease.
- Try to explore every step of a Data Science Project like handling missing values, cleaning, Data Analysis, feature engineering and used different model for prediction and then did model comparison.
- Summarized findings and provide a detailed explanation.

Movie Recommendation and Review Analysis | *Data Collection, API, ETL Processing, Model Deployment*
- Implemented a robust movie recommendation system with sentiment analysis using MLops principles, showcasing expertise in machine learning integration with operational processes.
- Leveraged TMDB API for comprehensive movie data retrieval, including details on cast, crew, and reviews, demonstrating proficiency in API integration and data acquisition.
- Using Flask framework for user interface, showcasing ETL processing capabilities by fetching data through APIs, appending it to existing datasets, and performing calculations to present refined results.
- Demonstrated adaptability by dynamically updating the dataset through API calls, enabling real-time addition of new movies, and ensuring up-to-date recommendations for users.

Fraud Detection Project by using SQL | *SQL, Pandas, Plotly, PostgreSQL, SQL Schema Design*
- Designed database design and management for transaction and customer data from CSV files.
- Implemented foreign keys and primary keys to ensure data integrity. And utilized SQLAlchmeya library to connect to the database.
- Build Executed queries and employed Python pandas framework for data manipulation and fraud detection. Generated visualizations such as graphs to analyze fraudulent transactions.

EDUCATION

RMIT University
Feb 2022 – Nov 2023

Master of Data Science

COURSEWORK

Advanced Programming for Data Science, Algorithms and Analysis, Machine Learning, Big Data Processing, Deep Learning, Database Concepts, Data Visualization, Applied Analytics

CDLU University, Haryana, India
Jun 2016 – Jul 2019

Bachelor of Science (Mathematics and Computer Science)

COURSEWORK

Descriptive Statistics, Real Analysis and Probability, Discrete Mathematics, Calculus, Computer Networks, Operating System, Data Structure