# Chander Mohan

Data Science Professional

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## Summary

Passionate and dedicated Machine Learning Engineer with over 1.5 year of hands-on experience in data analysis, data visualization, Project Management, and Model deployment with expertise in Python, SQL, ETL Pipelines, and qualified professional in Master of Data Science from RMIT University.

## Skills

**Languages**: Python, R Programming, SQL, HTML, CSS, JavaScript, Hadoop

**Libraries and Frameworks**: TensorFlow, Scikit-learn, Flask, NLTK, Flask React JS, RESTful API, Gen AI, Docker

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

**ML Ops:** DVC (Data Version Control), Model Deployment, CI-CD pipeline, GitHub Actions, Cloud Pipelines

## Work Experience

**CSIRO** / *Data Science Intern*                                                      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** / *Junior Machine Learning Engineer*                                    Feb 2020 – Jan 2021
- Developed and implemented various machine learning algorithms and models, significantly enhancing business decision-making processes by analyzing and processing both SQL and No-SQL data.
- Collaborated with data scientists, software engineers, and business stakeholders to understand project requirements, gather data, and deliver actionable insights.
- Creating RESTful APIs for machine learning models to facilitate communication with web frameworks.

**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

**Automated Facial Emotion Recognition |** *TensorFlow, GPU CNN Model, Transfer learning*
- The objective of this project is to develop a single CNN neural network that will automatically recognize Pattern in image and facs code for an image.
- Implemented Neural Network CNN model to create this model.
- Explored different image pre-processing tools and libraries to analyze and clean the image data. And create own custom data loader for pre-processing.
- Using the VGG16 Model by utilizing transfer learning with custom layers.

**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