

# Chander Mohan

*Data Science Professional*

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## SUMMARY

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Experienced Machine Learning Engineer with over two years of hands-on experience in data analysis, data visualization, model development, and deployment with expertise in Python, R Programming, SQL and qualified professional in Master of Data Science from RMIT University.

## TECHNICAL SKILLS

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**Languages:** Python, R Programing, SQL, HTML, CSS

**Frameworks:** TensorFlow, ML Flow, Scikit-learn, Flask, Django, Hadoop, NLTK, Pandas and NumPy, Map-Reduce, Keras API, Streamlit, Large Language Models

**Developer Tools:** AWS, Netlify, GitHub, Heroku

**Libraries:** DVC (Data Version Control), MLFlow, Model Deployment, CI-CD pipeline, GitHub Actions, Kubeflow

## EXPERIENCE

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### Data Science Intern

Jul 2023 – Nov 2023

*CSIRO*

- Developed and implemented innovative data augmentation methodologies for tabular data in the genetics domain. Very under-researched area in data augmentation on tabular data.
- Collaborate with team and client to understand Genetic 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 genetic data and enhance the model performance by 80% to 87% by using Mixup Algorithm.

### Machine Learning Engineer

Feb 2020 – Nov 2021

*Marlabs INC*

- Experience in machine learning algorithms and models to solve complex business problems, leveraging techniques such as supervised and unsupervised learning, deep learning, and reinforcement learning.
- Conducted data preprocessing, feature engineering, and selection to optimize model performance and accuracy, ensuring high-quality input data for analysis.
- Utilized Kubeflow to orchestrate and manage machine learning workflows on Kubernetes, ensuring scalability, reliability, and portability of our models
- Collaborated with different teams including data scientists, software engineers, and business stakeholders to understand project requirements, gather data, and deliver actionable insights.
- Ensuring data integrity and accuracy while doing data management and security.

### Data Science Intern

Aug 2019 – Dec 2019

*DCS Technologies*

- 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.

## PROJECTS

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### Portfolio Website | *Node js, React, HTML, CSS, CI-CD Pipeline*

[chandermohan.xyz](#)

- Developed a full-stack web application using with Node.js serving a REST API with React as the frontend
- This portfolio is a reflection of my professional journey, personal projects summary
- Design & Developed Custom Components and used Modern framework and Reacts APIs

## PROJECTS

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### **Facial Emotion Recognition** | *TensorFlow, CNN Model, Transfer learning, google colab*

- The objective of this project is to develop a single CNN neural network that will automatically recognize facial expression and face 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** | *Machine Learning, Data Analysis, Model Comparison*

- The aim of this project is to build a model that will predict the stage of Liver Cirrhosis using various patient information such as medical history, lab reports, and other relevant factors.
- Implemented machine learning concepts to develop predictive models for Liver Disease stages.
- Explored each step of the data science project lifecycle including handling missing values, data cleaning, exploratory data analysis, feature engineering, and model selection.
- Conducted thorough model comparison to evaluate the performance of different algorithms and techniques.
- Summarized findings and provided detailed explanations of model outcomes and insights gained from the analysis.

### **Regression Optimization through MLOps** | *github Actions, DVC, CI-CD Pipelines, Flask*

- The primary focus is on establishing a robust MLOps Pipelines, integrating it with a CI/CD pipeline, and leveraging the Data Version Control (DVC) framework. The goal is to streamline and automate the end-to-end machine learning lifecycle.
- Set up CI/CD pipelines to automate model deployment and monitoring, facilitating rapid iteration and updates.
- Ensured consistency and reliability of model deployments across different environments through version control and automated testing.

### **Fraud Detection Project by using SQL** | *SQL, Pandas, Plotly, PostgreSQL, SQL Schema Design*

- Designed SQL schema for transaction and customer data from CSV files
- Implemented foreign keys and primary keys to ensure data integrity. And utilized SQLAlchemy library to connect to the database
- Executed queries and employed Python pandas framework for data manipulation and fraud detection. Generated visualizations such as graphs to analyze fraudulent transactions

## EDUCATION

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### **RMIT University**

Melbourne, Australia

*Master's Degree, Data Science*

*2022 - 2023*

**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

*Bachelor's Degree, Mathematics*

*2016 - 2019*

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