

Chander Mohan

Data Science Professional

📞 0432687415 🐙 Github 📄 chandermohan.xyz 🔗 LinkedIn ✉ chander.mohan11@hotmail.com

SUMMARY

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.

SKILLS

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

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

Tools and Platforms: AWS, Netlify, GitHub, Heroku

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

EXPERIENCE

CSIRO | *Data Science Intern*

Jul 2023 – Nov 2023

- 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 organization to derive actionable insights from complex genetic dataset and enhance the model performance by 80% to 87%.

Marlabs INC | *Machine Learning Engineer*

Feb 2020 – Nov 2021

- Experience with different 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. Implementing version control for machine learning artifacts (VCF), including code, datasets, and model weights to ensures traceability and reproducibility of experiments.
- Utilized programming languages such as Python and R, along with libraries and frameworks including TensorFlow, PyTorch, and Scikit-learn, to build and deploy machine learning solutions.
- Collaborated with different teams including data scientists, software engineers, and stakeholders to understand project requirements, gather data, and deliver actionable insights.
- Ensuring data integrity and accuracy while doing data management and security.

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.

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

EDUCATION

CDLU University

Jun 2016 – Jul 2019

Bachelor of Science (hons) Mathematics

COURSEWORK

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

PROJECTS

Portfolio Website

 chandermohan.xyz

- This portfolio reflects my professional journey, personal projects summary, including a deep dive into Node.js for this project.
- Design & Developed Custom Components and used Modern framework and React js APIs.

Automated Facial Emotion Recognition

- 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 using Machine Learning

- 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.

Credit Risk Management Web App

- The main goal is to determine that the applicant will be able to repay their home loan within two years or not by using the information from their credit report.
- Implemented XGBoost Model to predict the Credit risk for customers.
- Addressed data privacy and security considerations in credit risk management and Flask Framework is used for Web development.

Job Advertisement Classification using NLP

- The goal of this project is to create an end-to-end project that will predict the category of a given job advertisement by using Natural language processing.
- Explored text preprocessing techniques to building text classification Model pipeline and Used Word2Vec word embedding to generate the count vector representation for each job advertisement description.
- Build a machine learning model to classify Job Category based on Job description by using count vector.