Chander Mohan

Data Science Professional

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# 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](https://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 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 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.