Chander Mohan

Data Science Professional

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SUMMARY

As a recent graduate, My motivation for pursuing a career in Data Science is stems from its role in identify patterns, trends and extract meaningful insights from vast and complex datasets that enable organizations to make data-driven decisions. I believe that working in the Data Science Field will not only challenge me to continually learn and grow but also provide a platform to apply innovative solutions to complex problems, making a meaningful impact in the tech space.

PROFESSIONAL EXPERIENCE

Data Science Intern

CSIRO — 07/2023 - 11/2023

- Applied Machine Learning Techniques on real world Problem
- Experimenting with Data Augmentation Techniques for Non-Image Data (Genetics). Very under-researched area in data augmentation on tabular data
- Analyse Model performance with different Data Augmentation techniques
- Developed end-to-end pipeline that provide augmented data in more generalized form that can be helpful for healthcare sector when they have less data

Data Analyst

CIFT Computer Center — 06/2020 - 11/2021

- Applied different python frameworks and libraries to clean and analyse data.
- Recognized significant patterns and trends within datasets. And report findings to stakeholders.
- Using Database Management system to store and organize Datasets.
- Ensuring data integrity and accuracy while doing data management and security.

Data Analyst Intern

DCS Recruitment & Trainning — 11/2019 - 05/2020

- Utilized SQL and Relational Data Management system to store the large Datasets
- Applied numpy and pandas for cleaning large Dataset.
- Created visualization and get insights from data by using different analysis tool with the help of python.
- Collaborated with other team members for creating comprehensive reports and summarizing findings.
- Applied Machine Learning Model for regression and classification problems for prediction.

PERSONAL PROJECTS

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 analyse 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.
- Experiment with different regualization technique to make model more robust.

Predicting Liver Cirrhosis Stage using Machine Learning

The aim of this porject 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 explored 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

EDUCATION

Master of Data Science

RMIT University

02/2022 - 11/2023 Melbourne

- Relevant Coursework: Advanced Programming for Data Science, Algorithms and Analysis, Practical Data Science, Machine Learning, Big Data Processing, Deep Learning, Database Concepts, Data Visualisation, Applied Analytics

Bachelor of Science(hons) Mathematics

CDLU University

2016 - 2019 Haryana, India

- Relevant Coursework: Descriptive Statistics, Real Analysis and Probability, Discrete Mathematics, Calculus, Computer Networks, Operating System, Programming in Java

TECHNICAL SKILLS

Programming Language

Python | R Programming | SQL | HTML | CSS

Libraries and Frameworks

TensorFlow | Scikit-learn | Hadoop | ML Flow | Flask | Django | Keras API | NLTK | Apache Spark | Pandas and Numpy | Streamlit

Tools and Platforms

Google Cloud Platform | AWS | GitHub | MySQL | Heroku

ML Ops

DVC(Data Version Control) | ML-flow | CI-CD pipeline | Model Deployment

PERSONAL PROJECTS

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 and Web app interface also provide the reason for why Credit decision rejected.
- The dataset by FICO community contain many features but we choose relevant feature by using feature engineering.
- Addressed data privacy and security considerations in credit risk management
- Flask Framework is used for Web development

NLP-Based Job Advertisement Categorization Project

The goal of this project is to create a 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.
- Used Word2Vec word embedding to generate the count vector representation for each job advertisement description.
- Build a machine learning model to classify Job Category on the basis of Job description by using count vector.
- Utilized flask framework for web app in which user can give a job description and model predict the Job category