

Jewel James

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Summary

Experienced Data Analyst with 3+ years of track record of analysing business intelligence reports and data that are extracted from different sources in the retail domain. Proven knowledge in expanding existing data collection and data delivery platforms. Worked extensively in development report and maintenance of analytical projects using Python, Java, SQL and PowerBI tools.

Skills

Data Science - Data Preprocessing, Data Visualization, Machine Learning (Intermediate), Deep Learning, Time Series Forecasting, Tableau

Programming Languages - Python, and Java

Database Management Systems - SQL, and MongoDB

Cloud Computing - Amazon Web Services

Experience

Amazon | Business Intelligence Analyst

Jul 2015 - Aug 2018

- + Extracted and cleaned data from reports, databases, etc and applied different text mining techniques using Python and SQL scripting.
- + Delivered huge volumes of data with granular level accuracy within strict deadlines. (**100 Million+** rows of data)
- + Executed successful migration and reporting of **key metrics** derived from data handled by the expansion team.
- + Identified the valuable information within the unstructured data and transformed it in a tabulated form which can enable further analysis.
- + Performed descriptive and prescriptive analysis on retail data for a customer profiling.
- + Developed a reporting tool using POWER BI for showing valuable information to the stakeholders.
- + Communicated reports and work completed with project stakeholders
- + Contributed significantly to the **Product Compatibility Platform** team, which made an incremental turnover of **\$9 Million** in 2015.
- + Review of **daily status updates** and tracking of the analysts.
- + Contributed significantly to the **Product Compatibility Platform** team, which made an incremental turnover of **\$9 Million** in 2015.

Projects

Stance Classification in Tweets

This project was undertaken to do stance classification of tweet and discovering the best fitting deep learning model that can successfully classify stance (FAVOR, AGAINST, NONE) based on particular Target (topic) about a tweet. Final selection was made of LSTM model as they proved to work best in natural language processing scenario. Analysing intra variability of classes and imbalancing of data, efforts were taken to choose a balanced data set for training purpose. glove MODEL trained on wikipedia data was used. The data was transformed to task vocabulary to fit the model. The model after large iterations of fine tuning made it robust and provided an accuracy score on validation as 52.97 and test score as 53.8 respectively.

Classify Images of Road Traffic Signs

This project was undertaken to discover the best fitting machine learning model which can successfully classify images based on two factors, namely shape and labels. Three different ML model development techniques were employed : MLP, CNN . The CNN model proved to be highly accurate .Analysis of intra variability of classes and comparison of classification performance of four Convolutional Neural Networks based on parameter tuning gave us the optimal model. The images provided are grey scaled and sized to a 28*28 density. The development of the model has three stages: image preprocessing, detection, and recognition. The model demonstrated a promising result with an accuracy of 81 %for shape classification and 62% for label classification. Independent evaluation was done by collecting images from internet sources and real time clicks of victorian, Melbourne streets.

Satellite Intelligence Sugarcane Harvest Forecasting Model

95% of Australian sugar is grown in Queensland, and sugarcane is the second-highest export crop after wheat as it contributes 2.5 billion dollars to the Australian economy. Developed the time series model (FB Prophet) to forecast the overestimation and underestimation of sugarcane for sugar mills using Satellite imagery datasets of sugarcane fields at Queensland. Processed the image data using python libraries and Google cloud services and also merged that dataset with weather and soil quality datasets to find the correlation and improve the performance of the model.

Covid -19 Analytics Web App

Developed an application using Amazon web services and extends a Web system to add business functionality. The environmental setup was done using elastic beanstalk where the backend was developed using NodeJs. The virtual server was launched through the EC2 instance and NoSQL database mongo DB was used for data storage. A complete user profile authentication was set up using amazon cognito.

UniLodge Management System

Developed a housing rental system using Java programming language with the help of Eclipse IDE. Also to make records accessible via Java JDBC technology. This is a simple yet complete hotel management system. This system performs all the necessary tasks that a hotel software application performs. JavaFx was used to tailor make the Graphical User Interface. Text file handling was implemented in the program to import and export data to facilitate analysis.

Education

Masters of Data Science - (Future Leaders Scholarship)
RMIT University

Feb 2019 - Jul 2021

Bachelors of Technology (Computer Science and Engineering)
Anna University

Jul 2011 - Jun 2015

Referees

Available on request.