RAKKESH ARAVIND G

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EDUCATION

Bharath Institute of Higher Education and Research (BIHER) **Chennai, Tamil Nadu**
Bachelor of Technology - Mechatronics Engineering, **CGPA 8.2** 2017 - 2021

WORK EXPERIENCE

RoofandFloor.com (The Hindu Group) **Chennai**
Data Scientist Intern July, 2022 - Present
- Handled and created datasets for Machine Learning by using complex **SQL** queries on databases with totalling over **56 Million** records of data. Used Linear Regression for building Prediction models on the extracted dataset along with **PySpark**.
- Programmed Nearby Places finder based on given geo-spatial data and plotted them on map. Used Haversine formula to find the distance between to geo points, tested its as a prototype feature within the proposed date. .
- Developed a **Recommendation system** based on demographic filtering with user's inputs to quantify the data and implemented it using **Python** as backend in a **Flask** prototype.
- Computed image processing using computer vision models on floorplans to extract and plot data using **OpenCV** and **TensorFlow**.
- Prototyped ETL pipeline using Pyspark, Python, MySQL & utilised Power BI for real time dashboard.
- Evaluated Time-series models like **ARIMA , SARIMAX** for sales prediction on the datasets.

Decibels Lab **Bangalore (Online)**
Campus Ambassador and Community Lead July, 2020 - Jan, 2021
- Learnt and presented BMS(Battery Management System) by interpreting data to finalize parameters fo the BMS in order to obtain target efficiency. Utilized **Google Sheets, MS Excel** and shared workflow among team members.

PROJECT WORKS

Property Price Prediction | Project Code July, 2022
- Implemented Machine Learning Algorithms like Linear Regression, Decision Tress, Random Forest and XGB Regressor to predict the prices of a property based on its historical data. Also, combined Feature engineering and Ensemble techniques such as Encoding, Gridsearch Cross Validation (K-Fold) to increase the accuracy of the model with RMSE score of 0.89.
- Deployed a Simple Property Price Prediction Model into WebApp using Flask. **Link Here.**

Credit Card Transaction Prediction | Project Code August, 2022
- Programmed a Machine Learning model to classify Credit Card Transaction as genuine or fraud by using algorithms like Random Forest Classifier, Logistic Regression, Catboost and XGBoost. Found XGBoost combined Cross Validation performing better than other models and scored an high ROC value of 0.97.

NLP Sentiment Analysis | Project Code October, 2022
- Devised a NLP Twitter sentiment analysis by using Keras LSTM, NLTK modules. For preprocessing data used CountVectorizer, Gradient Descent Optimizers, Sequential Transformers to make the model learn much better and attained a Accuracy score of 0.91 and Precision score of 0.92.
- Deployed a Text Sentiment Classifier WebApp based on NLTK with polarity scores to find nature of the text input. **Link Here**

TECHNICAL SKILLS

Programming : Python **Data Visualization :** Power BI, Tableau **SQL :** MySQL, PostgreSQL
Data Analysis : Pandas, NumPy, MS Excel **Machine Learning** : Scikit Learn, TensorFlow, Keras **Big Data :** PySpark, Airflow

CERTIFICATIONS

- **Google Data Analytics Professional** from **Coursera** May, 2022
- Python for Beginners, Data Science with Python and Introduction to SQL from **Simplilearn** Dec, 2021
- Total Quality Management from **NPTEL**, IIT Kanpur Certified Course April, 2021

LANGUAGES:

English: Fluent, **Tamil**: Fluent(Native), **Hindi** : Basics