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Farooq Ahmed R

Data Analyst

SUMMARY

Data Analyst with 3.3 years of experience working in Telecom Industry. Analyzed historical data to predict the Network performance, thereby reducing the cost to the company that was spent on Field Engineers

KEY SKILLS

- **Data & Quantitative Analysis**
- **Data Science**
- **Predictive|Statistical Modelling**
- **Data Mining | Data Cleaning | Data Wrangling**
- **Data Visualization**
- **Regression | Classification | Clustering Algorithms**
- **Supervised | Unsupervised Machine Learning Algorithms & Model Building**
- **Dimensionality Reduction | Time Series Analysis**
- **Database Queries using SQL**
- **Reports & Dashboards**
- **Robotic process Automation**

TECHNICAL SKILLS

- **Tools:** Python, Jupyter Notebook, Pycharm, PostgreSQL, SQL, Advanced Excel, Tableau, Linux, Ui-path Studio
- **Packages**: Numpy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-Learn, Scipy, Statsmodels
- **Statistics/Machine Learning:** Statistical Analysis, Linear/Logistic Regression, SVM, PCA, LDA, Ensemble Trees, Random Forests, Clustering, Recommenders

Professional Experience

Ericsson

Client-1. AT&T, USA (May-2018 - present) & (Jul-2017 - Dec-2017)

- Extract data from Ericsson database, clean and manipulate the data by performing **Data pre-processing** techniques such as **missing value,outlier treatment.** Conduct feature engineering and make it ready to predict optimized or degraded network
- Analyzed historical data containing **KPI parameters** such as **Cell Availability**, **Accessibility**, **Mobility Success Rate**, **Inter and Intra Frequency Handover** to predict the critical, major and minor networks using **Python**
- Prepare Daily, weekly and monthly Customer report/NTP of the site status using **TabPy API** in **Tableau** and share those Reports to the Customer on Daily, weekly basis
- Contributed in 141 CA FNET Sites by Q1 and received Star of the Month Award in March 2019.

Client-2. T-Mobile, USA (Jan-2018 to April-2018)

- Extract data from Ericsson database, clean the data using **Data pre-processing** in python and analyze the parameters such as RSSI trends, VSWR and RET tilts to understand the Network performance using **SQL** queries. Thereby reducing the cost to the company and unnecessary visit of Field Engineers to the site.
- Performed **Exploratory Data Analysis (EDA)** to check the **insights** and analyze the Alarms, Cell and Sector status of the Networks to understand the performance status of the Network using Python
- Prepare Daily, weekly and monthly audit report of the sites using **TabPy API** in **Tableau**, efforts of the internal Employees and Field Engineers to know the efficiency
- Completed Total sites of 4500 in very short period of time & received customer appreciation

Machine Learning in Telecom

- Extracted the data from Ericsson database, cleaned the data by using **Missing value Treatment**, performed O**utlier Treatment**
- Created various charts in **Jupyter Notebook** using **Matplotlib** to perform a preliminary analysis on the collected data.
- As per the Customer Requirements Applied the **SQL queries** on the cleaned Data to know the relation between present and past Data
- Performed Exploratory Data Analysis using **TabPy API** in **Tableau** and Observed the Trends of KPI Parameters such as **RSSI, Cell Availability, Accessibility, Mobility Success Rate, Inter and Intra Frequency Handover**
- Performed Feature scaling and used **Regression** techniques to predict the accuracy of the each sector with respect to their KPI parameters

Machine Learning Projects

1. Rating Prediction for different American multinational food manufacturing company

- Cleaned, merged and manipulated dataset and conducted feature engineering using Pandas. Also Created Various charts in Jupyter Notebook using Matplotlib.
- Predicted the rating f based on the given features using **Linear Regression,** Performed validation of the model using **r2 score** and **root mean squared error** & finalized the model.

Education

- Nitte Meenakshi Institute of Technology,2013-2017 Bachelor of Engineering (B.E.) Electronics and Communications
  CGPA : **8.74/ 10**
- Sindhi College, 2011-2013
  Percentage: 79.5
- Oxford English High School, 2011 **Percentage: 84.8**

2. Cancer Prediction

- Applied **Logistic Regression** and predicted the diagnosis.
- Based on the given dataset using **Dimensionality Reduction** techniques like **Principal Component Analysis (PCA)/Linear Discriminant Analysis (LDA)** and **reduced the dimensions** of the features.

3. Male and Female Voice Prediction

- Performed **Exploratory Data Analysis (EDA)** to check the **insights** and plotted the Heatmap of **correlation matrix** to understand the correlated features in the data set.
- Applied feature scaling using **Normalization** and **Standardization** on the dataset, applied the Logistic Regression model again and compared the score with previous model using **Confusion Matrix, Accuracy Score** and evaluated the model

4. Predict the survival of a horse based on various observed medical conditions

- Performed Exploratory Data Analysis on the Cleaned data which was obtained by dropping and filling missing values to check for any **Multi col-linearity, managed outliers** in the dataset.
- Applied Classification models like **Decision Tree,, K Nearest Neighbor and ensemble model Random Forest**, predicted the outcome and compared the confusion matrix and accuracy score.

5. Loan Prediction

- Performed **Univariate and Bivariate analysis** to check the **insights** and plotted the Heatmap of **missing values** and **correlation matrix** to understand the missing values, correlated features in the data set.
- Applied **Classification Algorithms** like **Logistic Regression, Naive Bayes, K Nearest Neighbors, Support Vector Machines (SVM), Decision Tree and Random Forest** and Performed validation of the models using **Confusion Matrix, Accuracy Score**.