Mohit Mudgal

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Skills

Language R, SAS, SQL, C++, Visual Basic Platforms Windows, Linux (Ubuntu) RDBMS Tools Microsoft SQL Developer, DB2, MySQL Android Development: Android SDK, JavaScript, Hybrid app Other Applications: Microsoft Office, Visual Basic Alternative Linear Regression, Logistic Regression, Decision Tree, Random Forest, XGboost and SVM unsupervised learning using K-means clustering and hierarchical clustering Time Series analysis using - Hot winters, AR, MA and ARMA Data visualization in R using ggplot2 and plotly for interactive graphs Feature engineering in R and SAS. Missing value and outlier handling, transforming variable, Creating new variables, Reshaping data using packages like dplyr and tidyr in R ROC, AUC, KS, Accuracy and lift performance matrix

Experience

Amex, Data Analysis (1)

Financial Data Aanalysis

Aarya International (Research Analyst) Gurgaon, Haryana (June 2017-Feb 2021), Data Analysis (3)

The Research associate at Aarya International is responsible for providing the client with advice and guidance on how to obtain required electronic circuit devices from manufacturing partners and how to complete the delivery process smoothly. The Aarya International work within strict timelines and communicate with manufacturing partners and the client consistently via email or telephone. Clients must be treated individually and the process tailored to suit them, with the consultation of manufacturing partners if necessary.

Projects

Real Estate: A real estate agency wanted to reduce the negotiation time and improve closure for buyers and sellers of homes by ensuring that both sides were advised well on the potential sale/purchase price of the home. Predict a transaction price for all the houses in its market which would be as close as possible to a price where the transaction would take place Environment: R use Linear regression Solution: Created a predictive model to arrive at a potential transaction price for all future transactions. We can't predict house having more than 7 rooms efficiently. More important is space and distance from market II) Human Resource: A mid-sized IT company with over 10,000 employees needed to plan its hiring and reduce risk of projects getting delayed due to employees leaving. It also wanted to understand why its attrition rate was high and how it could be reduced Environment: use Python Vector machines Solution: Created a decision tree model along with a Random Forest model to predict attrition and also to better understand the factors (like experience and salary) related to attrition taking place. Random Forest provided greater accuracy 91%(mmudgal33/)

Real Estate

Consumer Complaints Resolution: Given detailed consumer complaints along with whether consumer disputed with the conclusion If we are able to predict this, consumer who is more likely to dispute a conclusion can be given more attention, as to how the complaints are handled as well as how persuasively the final conclusions are conveyed to them. Environment: Python Text modeling and Random Forest. Solution: Used Text mining for getting important words in complaints. Use other variables for extra information in observation Retail: Retail giant plan new store openings over the next 12-18 months and has multiple locations, which would be the best to open new stores in terms of market size and potential revenues. Relevant data regarding locations, population, sales and revenues of key products for stores opened in the past was provided to be analyzed and for model building Environment: R logistic regression Solution: Random Forest worked out to be a better model, 23 locations were selected to open new stores based on this analysis. We get information that not every city is important, more important is locality not state or city (mmudgal33/)

Consumer Complaints Resolution

Education

kendriya vidyalaya (senior secondary, 2010)

school

Deenbandhu Chotu Ram University of Science and Technology (B.Tech, 2016)

Electronics and communication

Extra-Curriculars/Activities

- **Languages:** Edvancer: 'Certified Business Analytics Professional in R and SAS' in 2018 Edvancer: 'Certified Machine Learning Expert with Python' in 2018 Edvancer: 'Certified Data Analyst using SQL'& 'Certified Tableau Professional' in 2018

- **Hobbies:** IBM Education India: 'Android Development from IBM using Db2 database' in 2015

- Prolific: PLC, SCADA short term internship in 2013

- Full Stack Web Development

- SQL Certified