Venugopal C

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Professional Summary:

Data Scientist having 2.9 years of experience in Machine Learning, Predictive modelling and hands on experience in Python, Excel, SQL, Spotfire.

Having deep understanding of machine learning techniques like Logistic Regression, Tree based techniques, SVM and basic understanding of Deep learning techniques like Backpropagation and different mathematical optimization algorithms.

Extensive experience in gathering the business requirements, analyzing and translating the business requirements in technical requirements, implementing effective business solutions and building models.

Key competency areas:

Predictive modelling in Python, linear algebra and mathematical optimization. Small projects on Azure ML studio. Visualizations using Spotfire and plot.ly.

Data preprocessing and domain knowledge in manufacturing and banking.

Academics:

B.Tech, in Electronics and communication engineering from Jawaharlal Nehru Technological University, Ananthapur. Year 2015, Percentage 75.5%.

Technical Skills:

Python, Azure ML Studio, SQL, Excel, VBA, Tableau and Spotfire.

Work experience:

Cognizant Technology Solutions

Designation: Programmer Analyst – Machine learning

Roles and Responsibilities:

Project 1:

Build a system to process the material requests in manufacturing industry

Replicating the request data from SAP Hana to the local Redshift database in AWS and scheduling the process on daily bases.

Preprocessing the request like Regex, stop word removal, bag of words using the TFIDF techniques using the NLTK, text blob and sklearn.

Using N-grams to cluster the words and find the Cosine Similarity Scores between the different requests.

Passing the processed data to Spotfire for visualization that presented to client.

Project 2:

**To Build a Predictive Model and find out the sales of each product at a particular Retail Store.**

* Performed extensive analysis in order to understand the properties of products and stores which play a key role in increasing sales through graphical representation.
* Explore and visualize the data, build simple, base models for benchmark.
* Conceptualized feature engineering and leveraging the business insights from Case Review like (Count of Outlet Identifiers, Count of Item Identifiers and Outlet Years etc.) and setup a robust/thorough validation framework consistent with the evaluation metrics.
* Performed methodical experiments for the selection of optimum Tree based parameters.
* Used various ML Models like Linear, Decision Tree but Random Forest outperforms other Models with its lowest RMSE value.

Project 3:

**To Identify the Customers Segments and Target those customers who are Eligible for Home Loan.**

* Explored data after understanding the problem statement, evaluation metric and data dictionary. Tried various forms of summaries and visuals, after which I began the modelling.
* Used feature engineering and Create Variables like (Total Income, Income by loan etc.) in order to order to build successful machine learning solutions.
* Being a binary classification problem, the algorithm used like Logistic Regression, Random Forest, GBM and XGBoost came into play.
* Used 5-Fold Cross Validation Technique and Tune the features in order to improve the predictive power of the model.
* Evaluate Metric is accuracy i.e. percentage of loan approval you correctly predict.