Week 7 Deliverables

Group Name: Carpe-Diem group

Specialization: Data Science

Project Name: Bank Marketing (Campaign) --Group Project



Team Members:

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Bank Marketing (Campaign)

Problem Statement:

ABC Bank wants to sell its term deposit product to customers and before launching the product they want to develop a model which help them in understanding whether a particular customer will buy their product or not (based on customer's past interaction with bank or other Financial Institution).

Problem description:

One of the most common marketing strategy In Banking sector is direct marketing campaigns through phone calls ,it is a form of advertising that allows organizations to communicate directly with customers to offer their services based on the client's existing bank profile .Here we will consider term deposit as a banking service .

Business Goal:

To build a list of target customers who are likely to subscribe a term deposit. The more targeted our campaigns, the more successful they are likely to be.

Project Objective:

By converting this problem into a machine learning classification problem we will build a model to predict whether a client will subscribe a term deposit or not so that the banks can arrange a better management of available resources by focusing on the potential customers "predicted" by the classifier .

Technique to be used: Classification

Business Scope:

• Forecasting the profit which the term deposit product brings.

- Analyzing customers interactions with ABC bank and other financial institutions.
- Use the outcome value (y/n) to track the number of customers who would subscribe to the term deposit product in order to predict its performance in the market.
- Analyze which customers would be more likely to buy the product. (eg. Married, divorced etc.)
- Help the ABC convey how the product ties with the customer's benefits.

Business understanding:

- Portuguese Bank wants to improve marketing campaign to recommend which customer is to target by analyzing their past marketing data.
- The Motivation is by devising such prediction algorithm the bank can be a better target for its customer and better channelize its customer.
- Bank of Portugal offered its customer fixed term products such as CD's. Data was collected about each client, type of contact and outcome.
- How does Predicting term deposit tie in with its mission and vision?
- How do the visual design and marketing copy of data help convey the Marketing success of this campaign?

• The Goal can be achieved by using ML algorithm will use customer records to predict future action to reduce company's time and recourses.

Project lifecycle along with deadline:

Project lifecycle is a highfalutin way of describing the life of a project. Following are the high-level process of delivering a project and the steps to take a project and conduct a team from brief through to delivery.



1. Project Initiation:

Tasks	Deadlines
 Have a research and 	Week 7 and 8:
understanding on Bank	
business.	19 th July 2022

 Problem statement, project goal and data variables understanding. 	26 th July 2022
 To provide business insights and solutions to issues in the data. 	

2. Project Planning:

o Prepare data acquisition	Week 9, 10 and 11.
and data cleaning	
solution.	2 nd August 2022
 Create a python file with 	
exploratory data analysis	9 th August 2022
and power point	1 cth 1 2000
presentation of the same.	16 th August 2022
 Find the best solution 	
and algorithm for data.	

3. Project Execution:

 Try to apply different 	Week 12:
possible algorithms	
 Test the algorithm in 	23 rd August 2022
different categories	
 Compare algorithms 	
based on their	

performances.	
 Choose the best possible 	
algorithm for model.	

4. Project Closure:

 With best possible 	Week 13:
algorithm create a final	
project model.	30 th August 2022
 Create a power point 	
presentation for final	
project.	

Github Repo link:

https://github.com/amohini099/Banco-de-portugal-marketing

https://github.com/amirshq/Bank-Marketing-Campaign.git