CAPSTONE PROJECT 'BANK MARKETING'

LEILA FAKHRAEI

11/17/2020

DATA INCUBATOR INTERVIEW

WHAT IS THIS DATA ABOUT

- Each year, banks contact around 50,000 of their clients and encourage them to make a deposit?
- Why does bank do that?
- It's a source of funding for the bank, the bank lends the money with higher interest to other business or clients, the difference interest rate goes to the bank.
- why clients might not be willing to do so? If a customer wants to close a term
 deposit before the end of the term, or maturity, the customer will be subject to a
 penalty. This penalty may include the loss of any interest paid on the deposit account
 until that point.

DATA?

Data includes personal information of clients such as age, job, education,... and contact information like day and month,... of contact

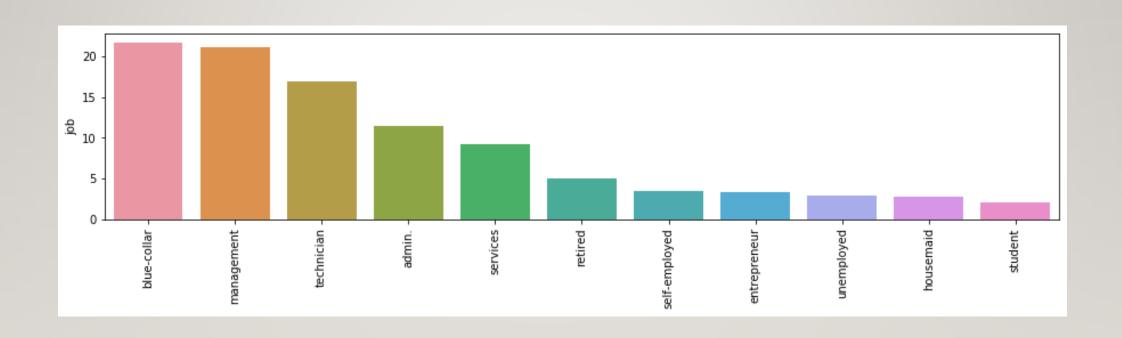
~4MB data, solved in python Challenges of this data?

Many missing values and imbalance data, less than 12% of clients subscribed the term deposit!

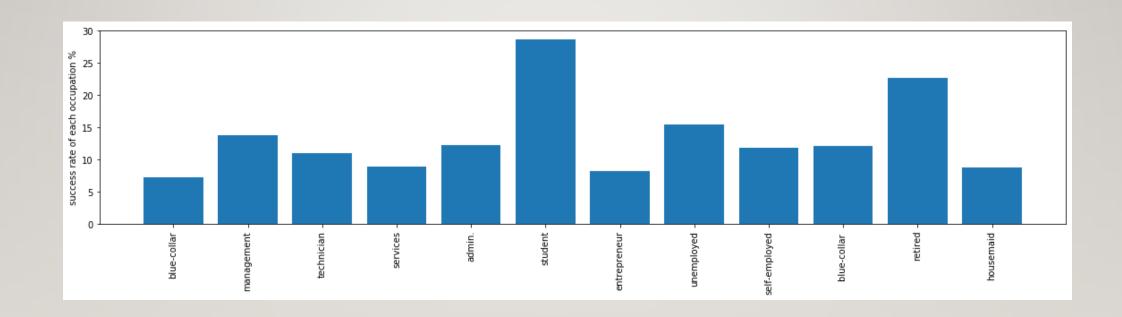
GOAL: HIGHER RECALL

- How can I help the bank?
- I can help to increase their success rate, meaning more subscriptions
- Preferable metrics for purpose of this data is recall, Higher recall

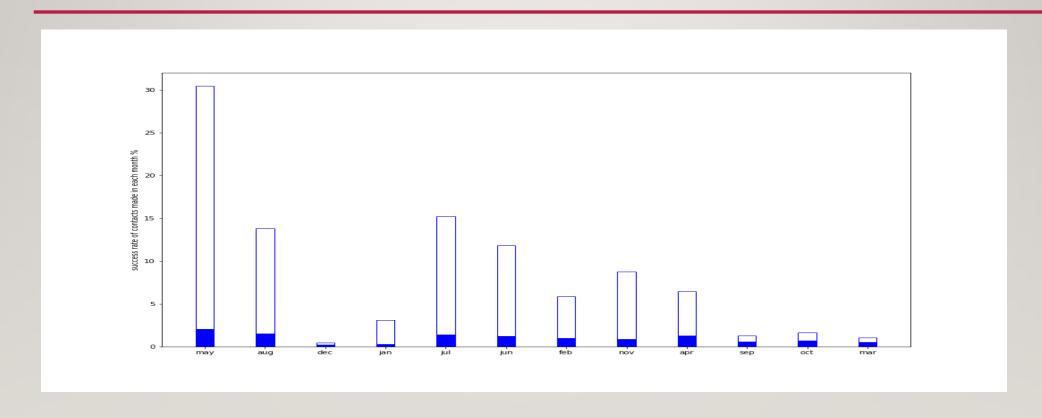
FREQUENCY OF CALLS FOR EACH OCCUPATIONS



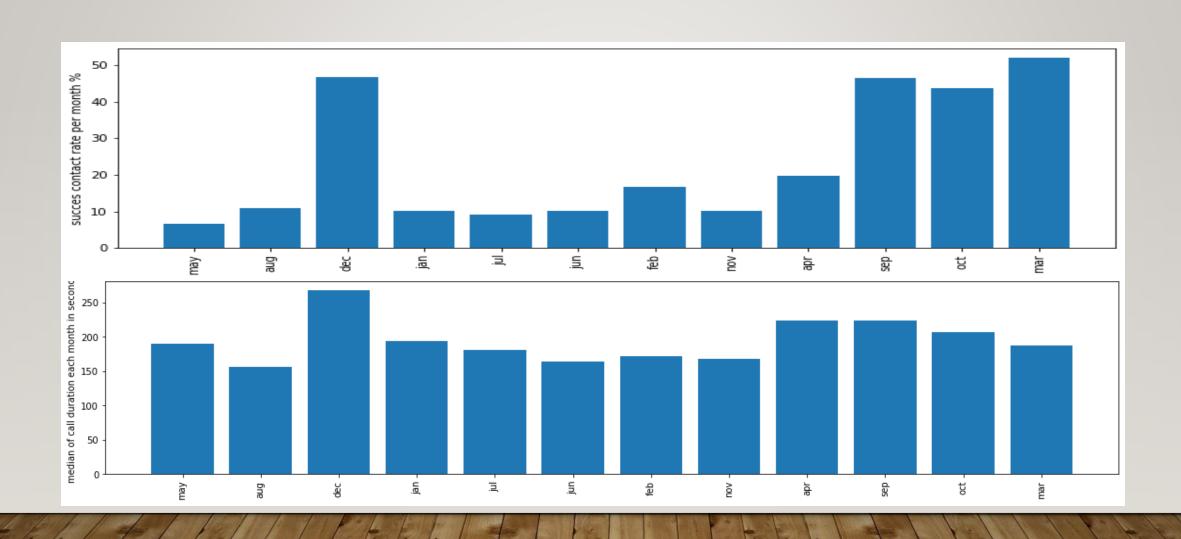
SUGGESTION #1:CALL MORE STUDENTS AND RETIREE



MONTHS WITH LOWEST NUMBER OF CONTACTS HAD HIGHEST SUCCESS RATE!



FEWER PHONE CALLS, LONGER PHONE CALLS



SUGGESTION FOR NEXT CAMPAIGN

- I. Call more students and retirees and fewer blue collars.
- 2. Call clients during cold seasons, fall and winter
- 3.Try to have a longer conversation, engage customers in a conversation and try to have minimum 2 minutes long call

JOB AND EDUCATION

