**Members** 

Vaibhav Jain

Harshit Parikh

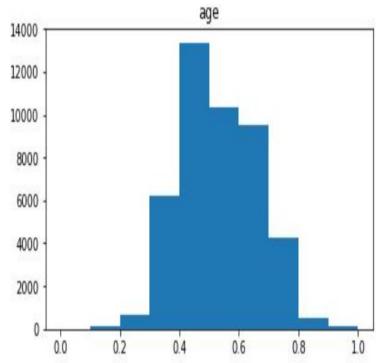
Aniruddha Tambe

### **Outline**

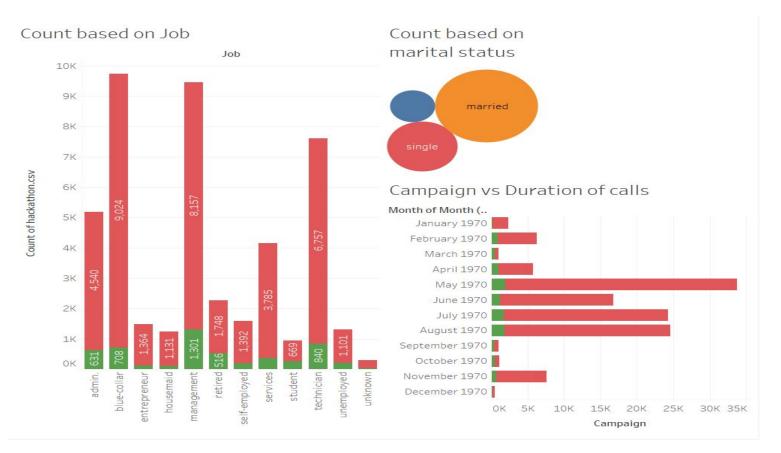
- Data Preprocessing and Exploratory Data Analysis
- Data Visualization
- Machine Learning Concepts

## **Data Preprocessing and Exploratory Data Analysis**



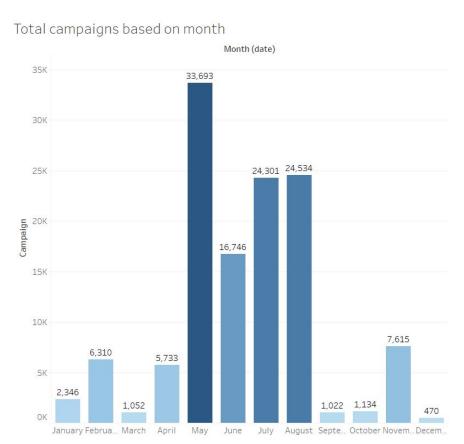


## **Data Visualization**

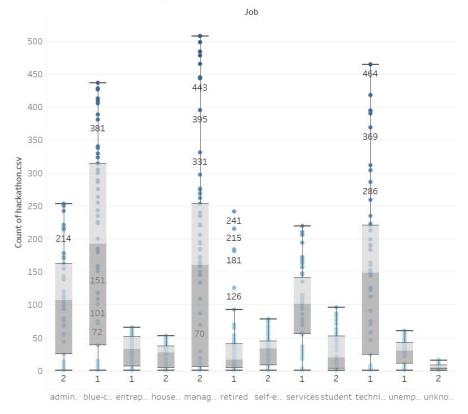


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## **Data Visualization**



#### Distribution of age by occupation



# **Insights gained**

- 1. More the duration of the call, higher the probability that customer will subscribe to term deposit.
- 2. Entrepreneur and Blue collar have high duration in calls and retired have less duration.

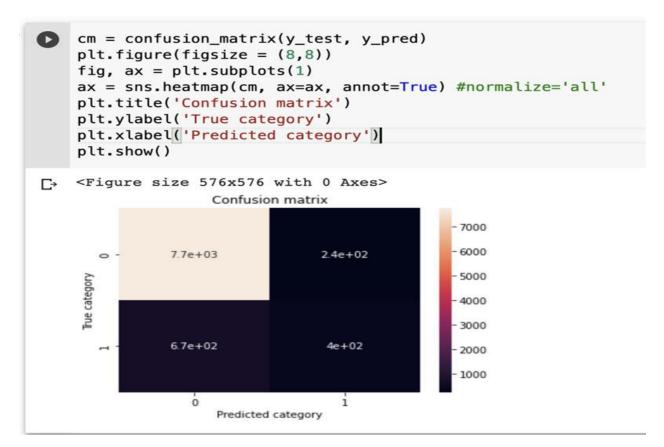
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- 3. More number of management and self-employed have subscribed.
- 4. More number of campaigns in May to August.
- 5. Management and retired have highest balance.

# **Machine Learning Concepts**

```
result_df = result_df.sort_values(by=['Accuracy Scores'], ascending=False)
    result_df
C→
       Classifiers Accuracy Scores
     4 Grad Boosting
                              0.903119
         Logistic Reg.
                              0.895184
     5
            Rand FC
                              0.893303
        Support vector
                              0.883212
     2
           K- Nearest
                              0.881332
        Decision Tree
                              0.850752
```

# **Machine Learning Concepts**



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