# HALAM

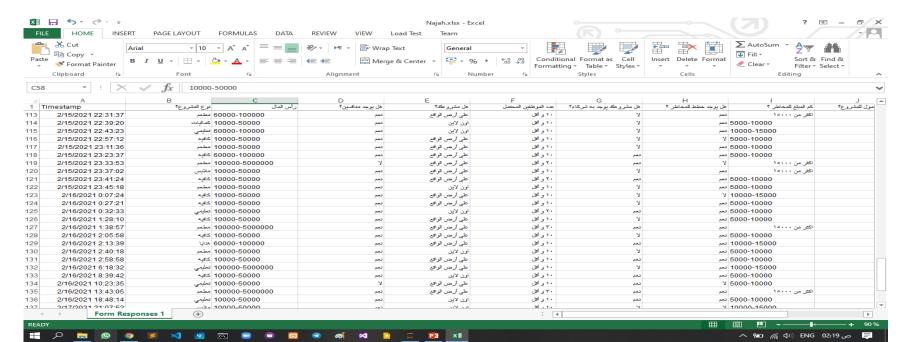
TO PREDICT THE SUCCESS OF YOUR BUSINESS

# Machine Learning model

- Phases to build our model
- ▶ 1- collect our own data
- 2- preprocessing data (data cleaning data analysis)
- ▶ 3- model selection
- ▶ 4- build model
- ▶ 5- test our model and display accuracy

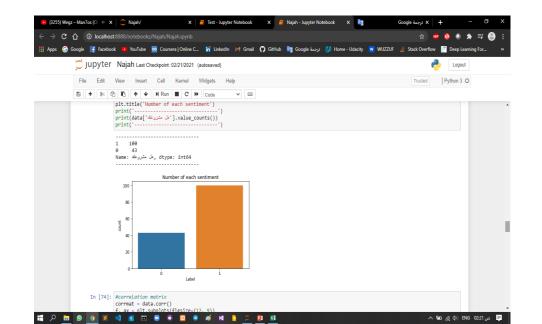
#### Collect Data

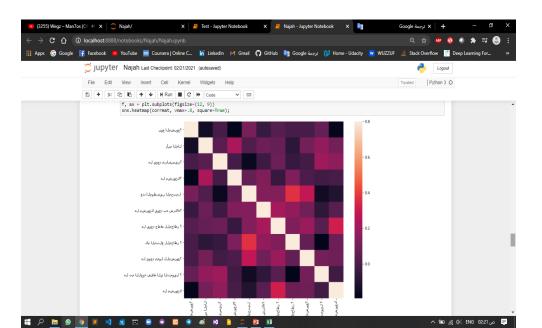
- ▶ We create google form that contains some questions that used as features in our model.
- Some example of our data:



# Preprocessing

- Analysis our data and understand of its pattern to detect coloration of features
- Some plotting of data



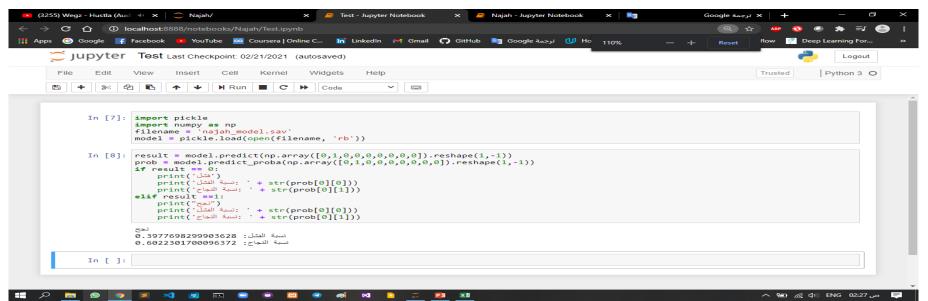


### Model Selection

- Choose algorithm that fit our problem
- ► Algorithms chosen:
- ▶ 1- Logistic Regression with accuracy: 79%
- 2- SVM with accuracy: 76%
- 3- Random forest with accuracy: 73%
- ► 4- KNN with accuracy: 52%

#### **Build Model**

- ▶ 1- We choose logistic regression algorithm that give us the highest accuracy
- ▶ 2 Then we test it with new data and get good result
- Example of text:



# Finish