Heart Attack Possibility Prediction using Classification

Hello Fellow Interns,

For your Second Week, you're being requested to go through the dataset named **'Heart'**, containing the following attributes:

1) age
2) sex
3) chest pain type (4 values)
4) resting blood pressure
5) serum cholestoral in mg/dl
6)fasting blood sugar > 120 mg/dl
7) resting electrocardiographic results (values 0,1,2)
8) maximum heart rate achieved
9) exercise induced angina
10) oldpeak = ST depression induced by exercise relative to rest
11)the slope of the peak exercise ST segment
12) number of major vessels (0-3) colored by fluoroscopy
13) thal: 0 = normal; 1 = fixed defect; 2 = reversible defect
14) **target**: 0= less chance of heart attack 1= more chance of heart attack

The dataset has been provided along with the task description.

Your TASK:

- Write your inferences based on the visualisation of sex, chest pain type, exercise induced angina, fasting blood sugar and rest ECG, fasting blood sugar and exercise induced angina, etc.
- Predict the possibility of heart attack using XGBoost or Logistic Regression. Also show the prediction by taking an example in the end.

Tools & Libraries you may need:

• Python
• Matplotlib, scikit-learn, pandas
• Jupyter Notebook

- Download the data provided.
- Now, you can start your work by opening a Jupyter notebook in Google Colab: https://colab.research.google.com/notebooks/intro.ipynb or Anaconda if you already have it pre installed on you PC.
- Load the data onto the notebook and you're good to go.

For any doubts contact Archi Agrawal: 9718661615

After you're done with your work, show it to us and then post it on LinkedIn by tagging your mentor and Cureya Team.