## Homework 1 Preprocessing

Due Date: Sept 16th Assigned Date: Sept 9th

Please follow the instructions below

- 1. Import the required libraries
- 2. Load the dataset
- 3. Take care of the missing data ('nan' value): fill them with average value
- 4. Encode the categorical variable:
  - ① Encode the independent variable
  - ② Encode the dependent variable
- 5. Split train set and test set with parameters: test\_ size = 0.2, random\_ state = 0
- 6. Apply feature scaling

Write your name and USC-ID at the top of your code. Upload your code in .ipynb format with the running result in it. Upload your code's screenshot (make it in .pdf format) or export it to .pdf

You are recommended to use Google Colab for your homework

## New Coders **READ ME!!**:

If you are not familiar with Python, pip, and conda(mamba):

- 1. I strongly recommend using Google Colab
- 2. If you want to run Python on your own device, do your own research / ask your friend

If you get an error:

- 1. read the error, try to understand it
- 2. If you do not understand it, it is fine, copy paste the error into Google, click on the first link, generally there will be an answer/explanation to it
- **3.** If it turns into another error, congrats, you are moving forward, repeat 1 & 2 until it is fully resolved!
  - 4. If you cannot fix it for 1.5 hours, seek help to other students