To setup your environment from the start you will need to install anaconda. Go to the Ananconda website and download it for Mac or Windows.

conda create --name tf\_gpu tensorflow-gpu

conda activate tf\_gpu

conda install jupyter

conda install keras

conda install pandas

conda install scikit-learn

conda install matplotlib

conda install seaborn

conda install plotly

conda install ipywidgets

pip install cufflinks

pip install shap==0.28.5

pip install lime

activate your venv in conda

activate tf\_gpu

launch Explainability\_lendingclub.ipynb

first block is all required imports

second block is all object loading and helper functions

Run the following imports in the first block of the notebook:

# Explainability

import shap

from utils.helpful\_util import ExplainShap

from matplotlib import rcParams

import os

from IPython.display import display\_html

from IPython.display import display, HTML

from gam.gam.gam import GAM

from plotly.offline import download\_plotlyjs, init\_notebook\_mode, plot, iplot

import plotly.plotly as py

import plotly.graph\_objs as go

from utils.helpful\_util import display\_abs\_shapvalues, display\_shapvalues

import seaborn as sns

from ipywidgets import interact, interact\_manual

import ipywidgets as widgets

import cufflinks as cf

import matplotlib.pyplot as plt

from utils.helpful\_util import plot\_confusion\_matrix

from pylab import rcParams

from sklearn.metrics import confusion\_matrix, classification\_report

import sklearn

import lime.lime\_tabular

import lime

import keras

import pandas as pd

import numpy as np

import matplotlib

from utils.helpful\_util import display\_sklearn\_feature\_importance, Perturb

from utils.load\_objects import save\_obj, load\_obj, load\_models\_lendingclub

import warnings

warnings.filterwarnings('ignore')

%matplotlib inline

import tensorflow as tf

#tf.reset\_default\_graph()

!jupyter nbextension enable --py widgetsnbextension #Enabling interactive plotting

display(HTML("<style>.container { width:75% !important; }</style>"))