# Colab Basics

TF2.0 Loading Data

# download the data from a URL

# source: https://archive.ics.uci.edu/ml/datasets/Arrhythmia

# alternate URL: https://lazyprogrammer.me/course\_files/arrhythmia.data

#!wget --no-check-certificate https://archive.ics.uci.edu/ml/machine-learning-databases/arrhythmia/arrhythmia.data

!wget https://lazyprogrammer.me/course\_files/arrhythmia.data

# use keras get\_file to download the auto MPG dataset

# source: https://archive.ics.uci.edu/ml/datasets/Auto+MPG

#url = 'https://archive.ics.uci.edu/ml/machine-learning-databases/auto-mpg/auto-mpg.data'

### alternate URL

url = 'https://raw.githubusercontent.com/lazyprogrammer/machine\_learning\_examples/master/tf2.0/auto-mpg.data'

# another method: upload your own file

##### PLEASE NOTE: IT DOES NOT MATTER WHICH FILE YOU UPLOAD

##### YOU CAN UPLOAD ANY FILE YOU WANT

##### IN FACT, YOU ARE ENCOURAGED TO EXPLORE ON YOUR OWN

# if you must, then get the file from here:

# https://raw.githubusercontent.com/lazyprogrammer/machine\_learning\_examples/master/tf2.0/daily-minimum-temperatures-in-me.csv

# Machine Learning Basics

TF2.0 Linear Regression

!wget https://raw.githubusercontent.com/lazyprogrammer/machine\_learning\_examples/master/tf2.0/moore.csv

# ANN

# CNN

# RNN

TF2.0 Stock Returns

# yes, you can read dataframes from URLs!

df = pd.read\_csv('https://raw.githubusercontent.com/lazyprogrammer/machine\_learning\_examples/master/tf2.0/sbux.csv')

# Natural Language Processing

TF2.0 Spam Detection

# Unfortunately this URL doesn't work directly with pd.read\_csv

!wget -nc https://lazyprogrammer.me/course\_files/spam.csv

# Recommender Systems

# data is from: https://grouplens.org/datasets/movielens/

# in case the link changes in the future

!wget -nc http://files.grouplens.org/datasets/movielens/ml-20m.zip

# Transfer Learning

# Data from: https://mmspg.epfl.ch/downloads/food-image-datasets/

# !wget --passive-ftp --prefer-family=ipv4 --ftp-user FoodImage@grebvm2.epfl.ch \

# --ftp-password Cahc1moo -nc ftp://tremplin.epfl.ch/Food-5K.zip

!wget -nc https://archive.org/download/food-5-k/Food-5K.zip