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Deep Learning Course – Capstone Project

Detect Phishing URL with TensorFlow

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Problem Statement

- You are given phishing URL data where the last column indicates phishing URL or not
- You need to build a TensorFlow-based DNN Classifier that learns to predict phishing URLs

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Pre-requisites

- You need to have the followings softwares installed
  - Python 3.5, 3.6 or 3.7 (as TensorFlow works with these Python versions only)
  - TensorFlow
  - Jupyter notebook

Program & data

- Extract the ipynb file and the data in the same folder

Note on data size and runs

- You are provided 11000+ samples of the URL data
- The student is expected to run approximately 5000 training steps

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Assignment overview

•You are GIVEN the following parts of the program already :-

- Import modules
- Load Data

•You are expected to write a TensorFlow Classifier model (hint : use TensorFlow DNNClassifier) that trains on the data and calculates the accuracy score on the test data.

•The next slide has the details of the DNN model that you are to produce.

Task to be completed:

The DNN model should have the following layers

- use a TensorFlow DNNClassifier with three hidden layers having no of units 5, 27, 3.

Training/ Evaluation

- For training step, run 5000 training steps
- Test on test data and print the accuracy score

Thank you

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