Software project 1

Buciu Ștefan

For the first software project, I am going to use the Python programming language. It has a large support for ML with the help of some popular libraries. The libraries that I’m going to use are:

1. [Pandas](https://pandas.pydata.org/) – Used for reading and manipulating data sets
2. [NumPy](https://numpy.org/) – Used for mathematical operations
3. [Plotly](https://plotly.com/python/) – Used for plotting
4. [Scikit-Learn](https://scikit-learn.org/stable/) – Used for classical ML models such as SGD, SVM
5. [Tensorflow](https://github.com/tensorflow/tensorflow) & [Keras](https://keras.io/) – Used for DL

Installation:

* Python can be downloaded and installed from the official site.
* The libraries can be installed with the help of the pip CLI: pip install <packageName>
* To configure Tensorflow to use your GPU, you have to install CUDA and download cuDNN.dll file. The compatibility of Tensorflow Version x CUDA version x cuDNN version is covered in the following [table](https://www.tensorflow.org/install/source_windows#gpu).