MLND – Leaf Classification Using Neural Network

Problem Statement

This project will use feed forward neural network model for leaf classification.

This project is based on a kaggle competition, leaf classification (https://www.kaggle.com/c/leaf-classification/)

Dataset

The dataset includes:
1) train.csv
2) test.csv
3) images

These files can be downloaded by using below link:
https://www.kaggle.com/c/leaf-classification/data

Library dependencies

sklearn 0.17.1
pandas 0.18.0
numpy 1.11.1
tensorflow 0.9.0
keras 2.0.8

Scripts

Some useful python scripts and kernels that helped me achieve my goals:

1) https://www.kaggle.com/jeffd23/10-classifier-showdown-in-scikit-learn

2) https://www.kaggle.com/felixsoul/basic-neural-network-using-tensorflow

Report

A final report explaining this project and the surrounding problem domain is available as `report.pdf.`