# Intro. to Machine Learning Project3

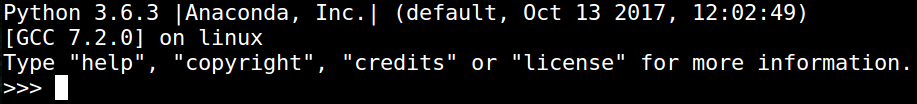
Comparison b/w KDTree , Decision Tree and Naive Bayes Classifier Report

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## Build environment (Note, this report is written in md-like format)

\* Ubuntu 16.04 LTS 64bit

\*



\* Packages including sklearn, numpy, scipy

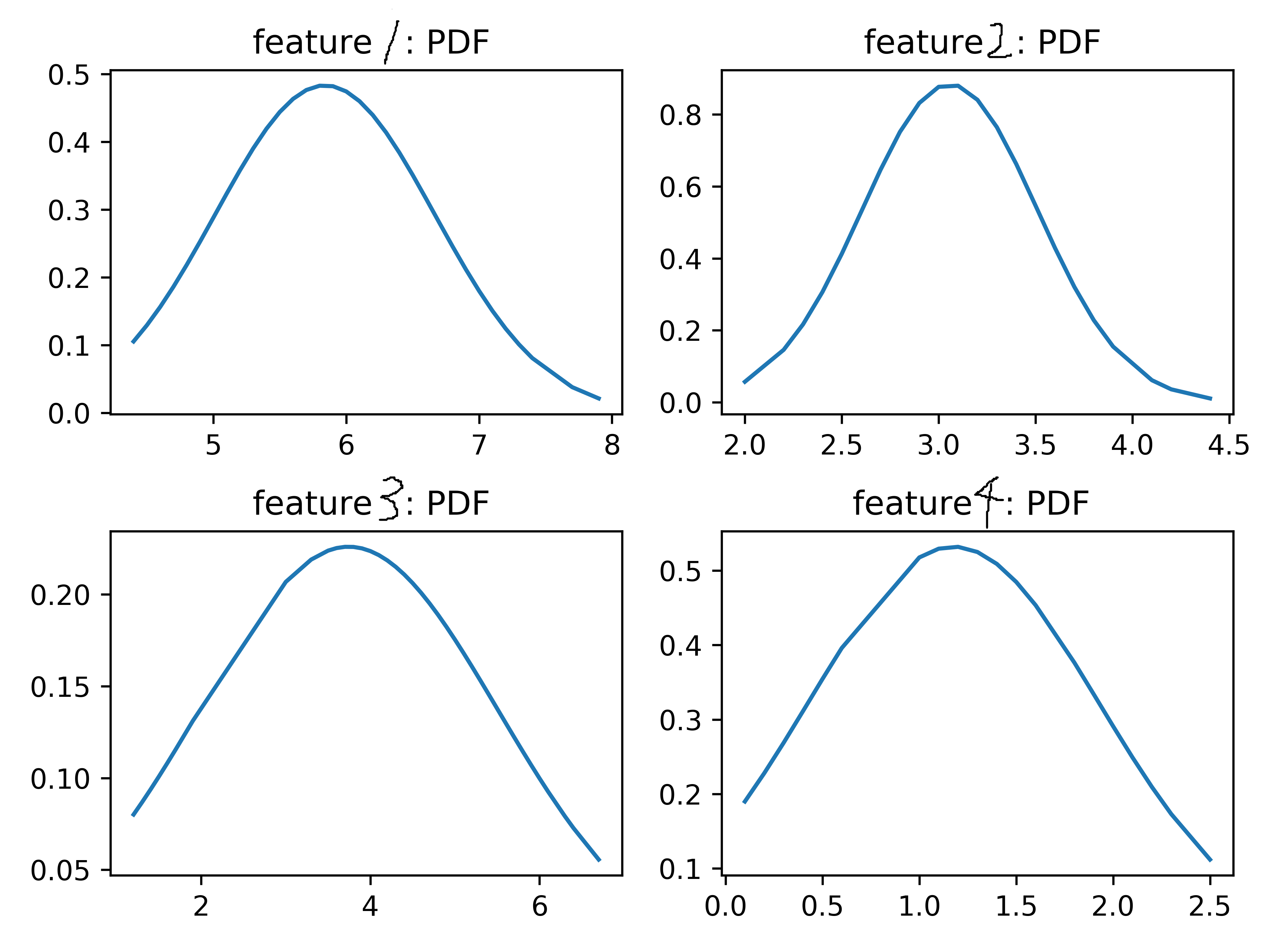
Where sklearn is used for the constructing/training /validating model, numpy and scipy for the numerical and statistical analysis.

\* Intel Core i7-5700HQ 2.9GHz 4C8T

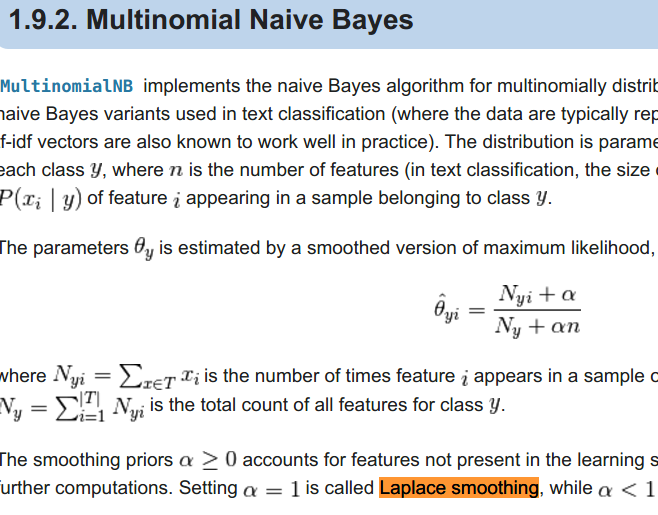
\* DDR3 -1866 16GB dual channel

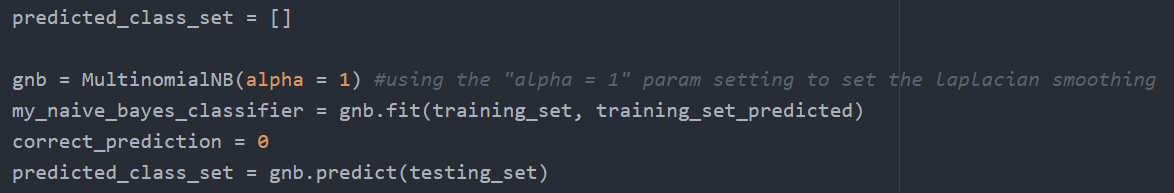
## Iris data set

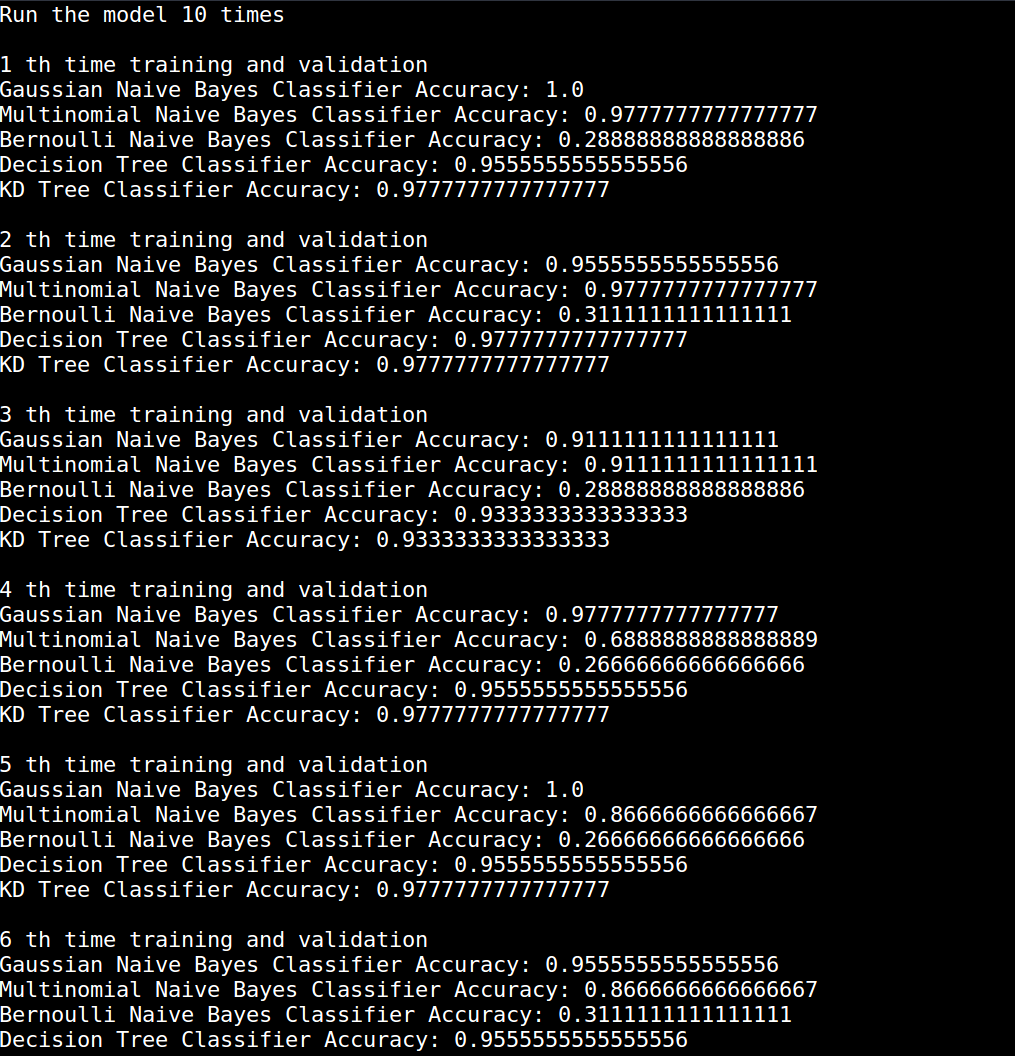
\* Probability Distribution Plot of the iris\_dataset

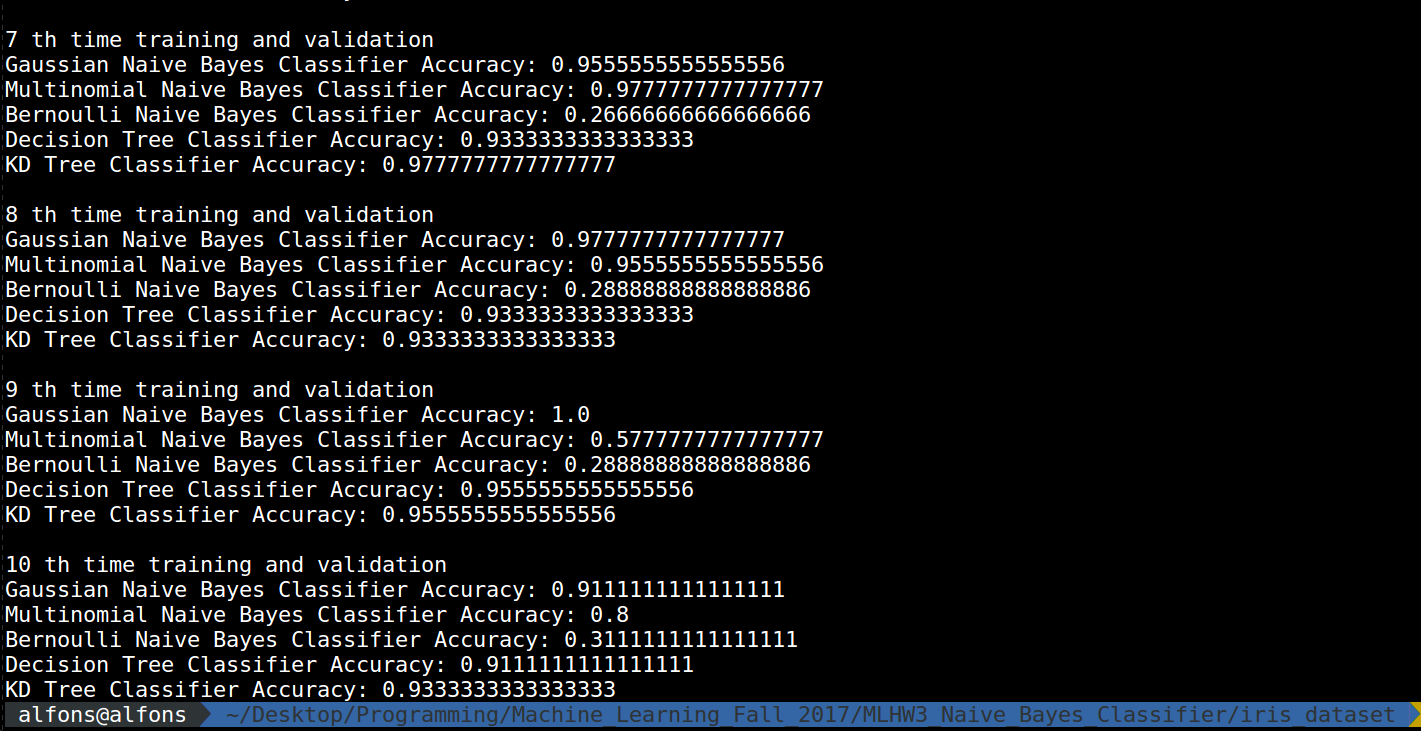


\*The required Laplacian Smoothing can be found in the Multinomial Naive Bayes Classifier:









\* Observation and my inference from the prediction result of the iris dataset