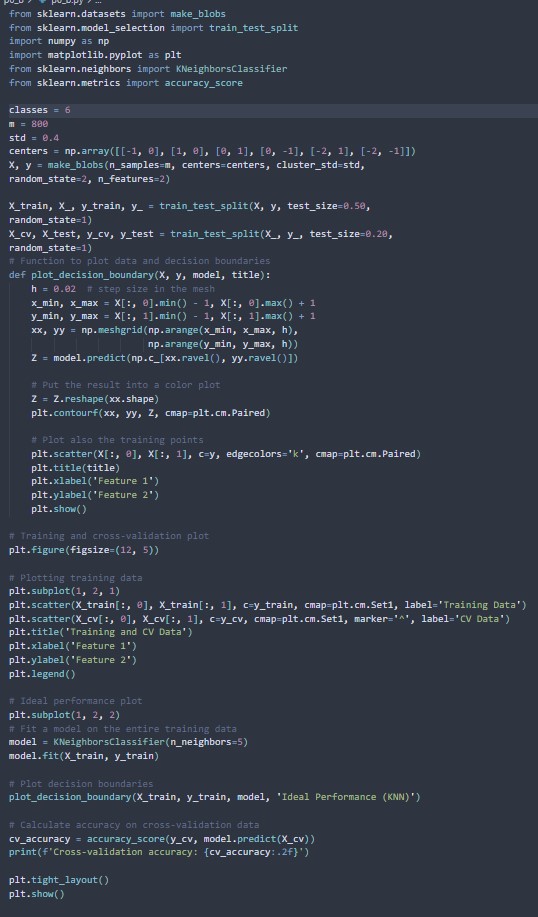
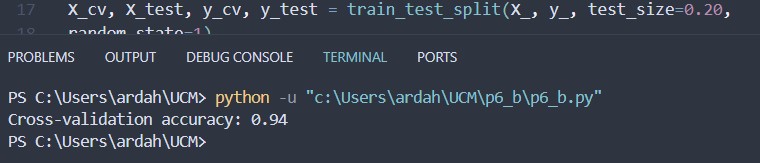
Part 1

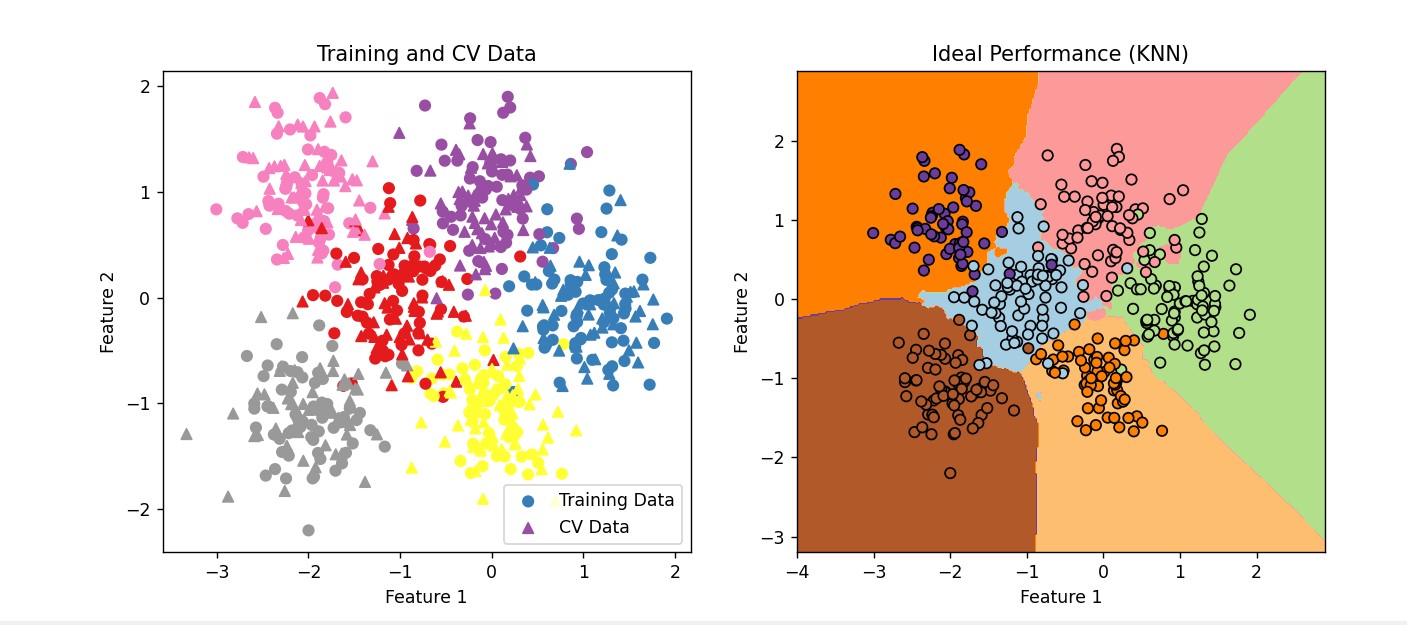
* We compare, “training data”, “cross-validation” and “ideal data”



* Here is the training accuracy:



* Here are the graphs:

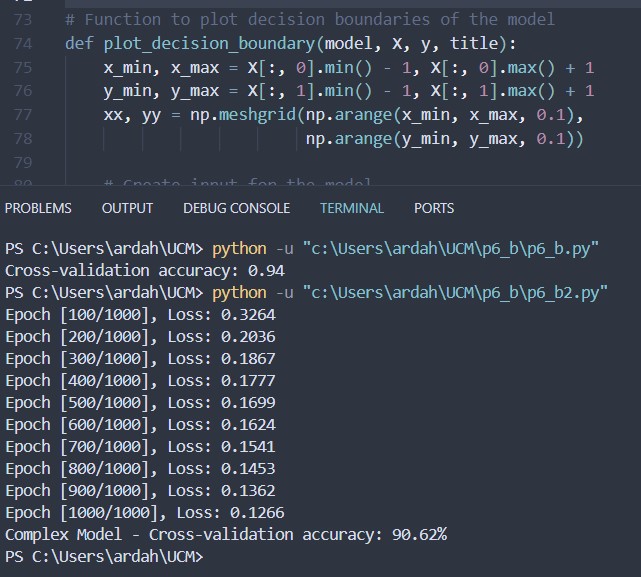


Part 2

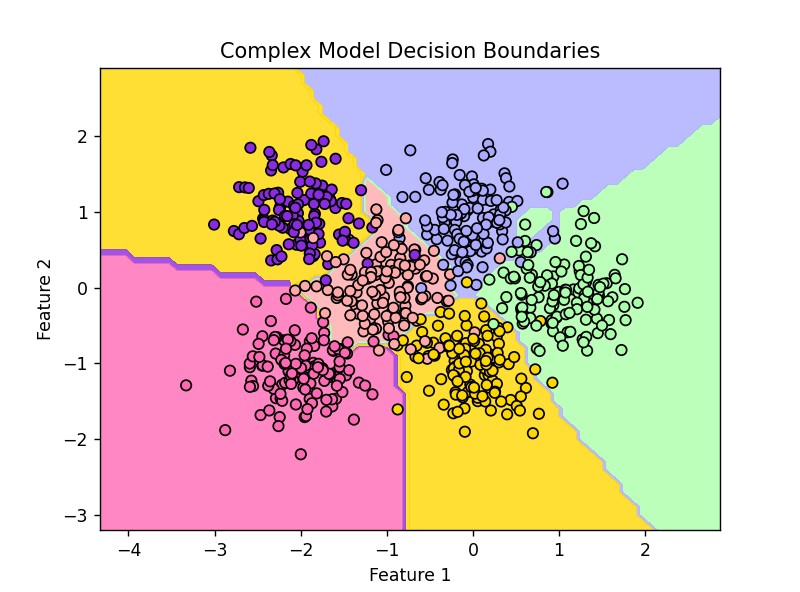
* We develop a complex model



* Here is the cross-validation accuracy

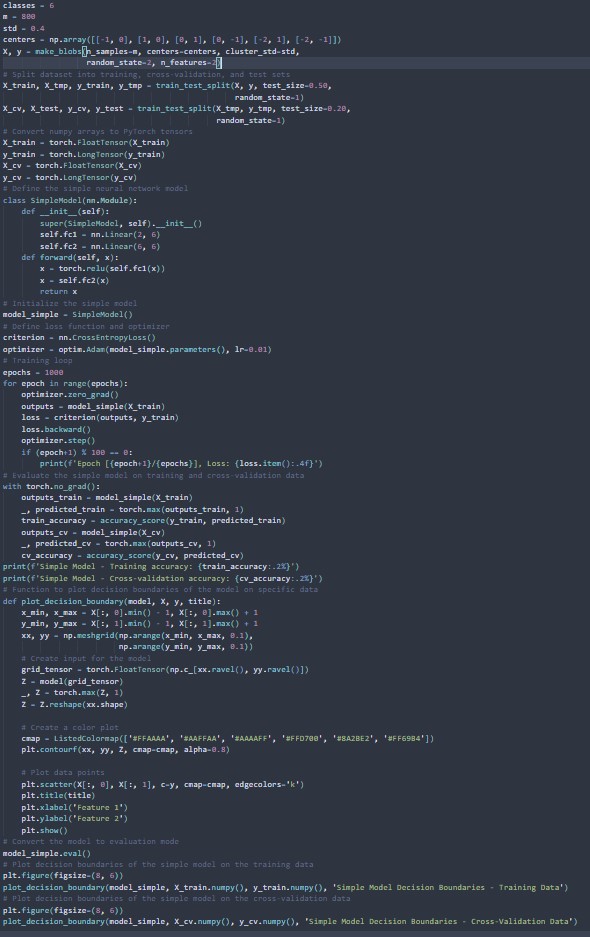


* Here is the plotted graph:

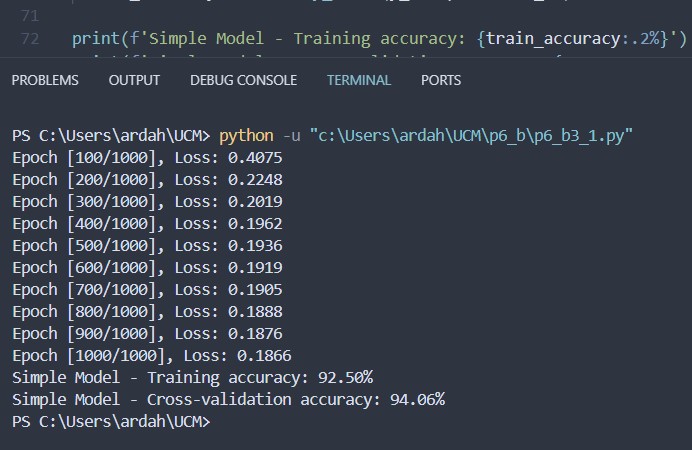


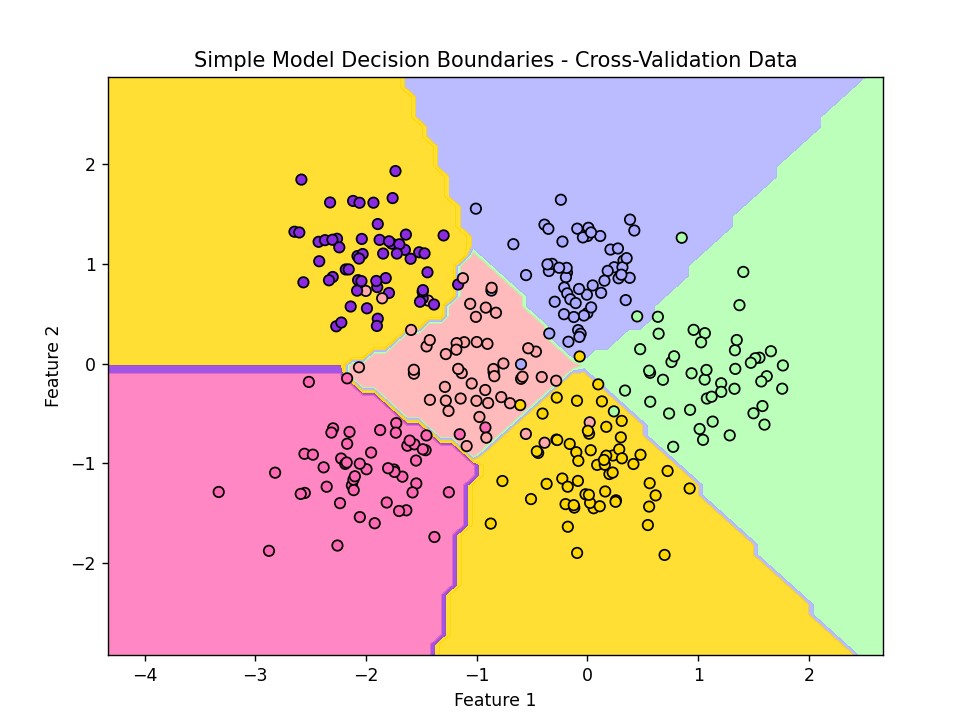
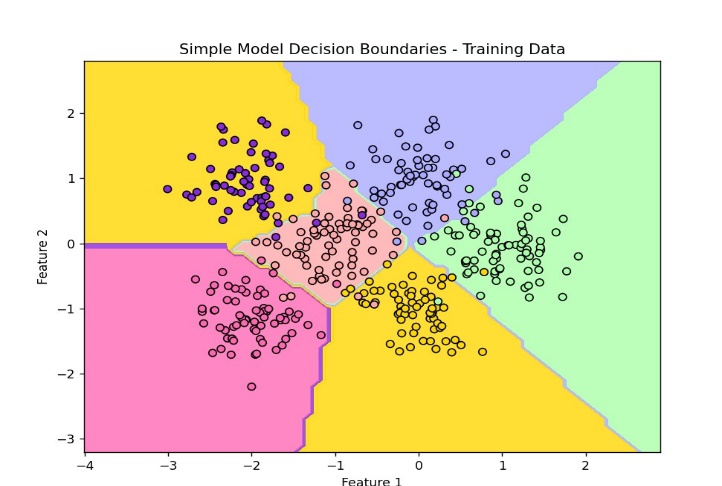
Part 3

* We will now try to develop a simple model



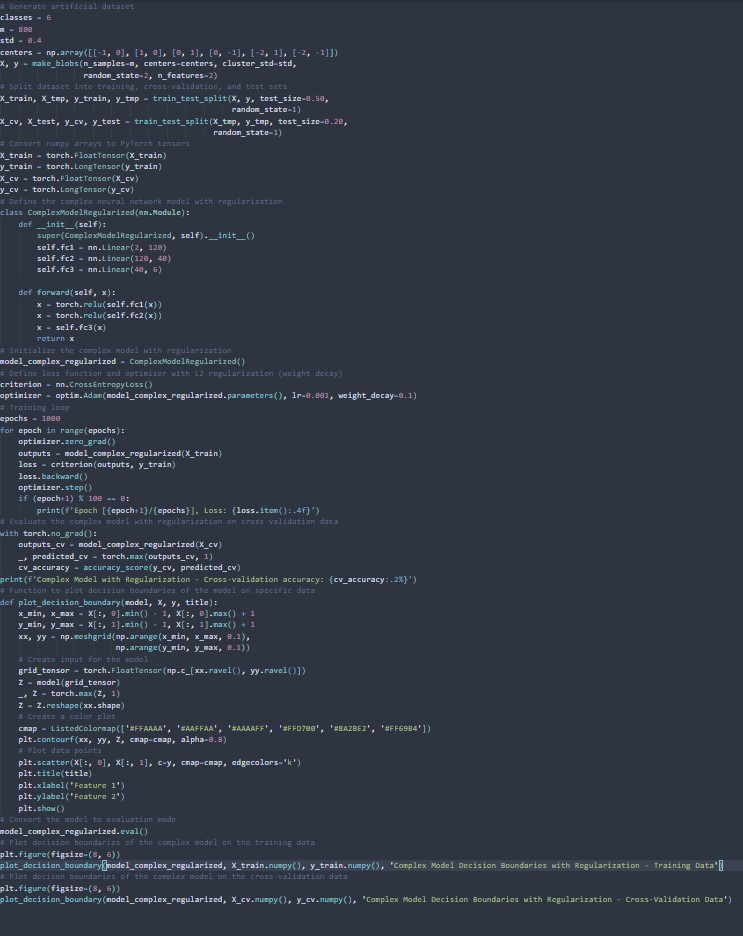
* Here is the output ad accuracy rate



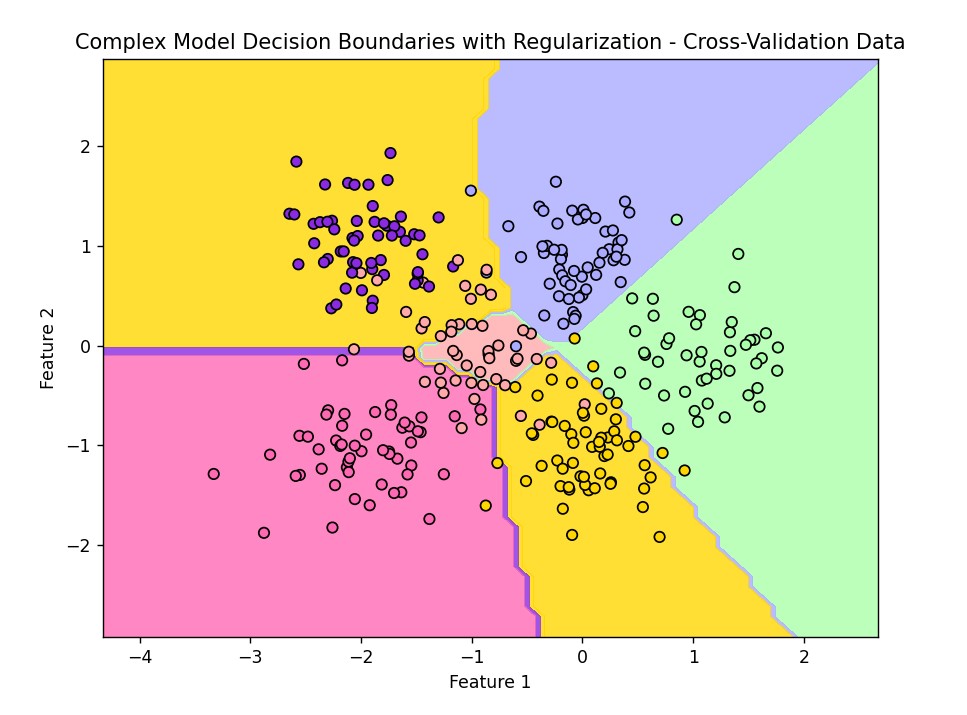
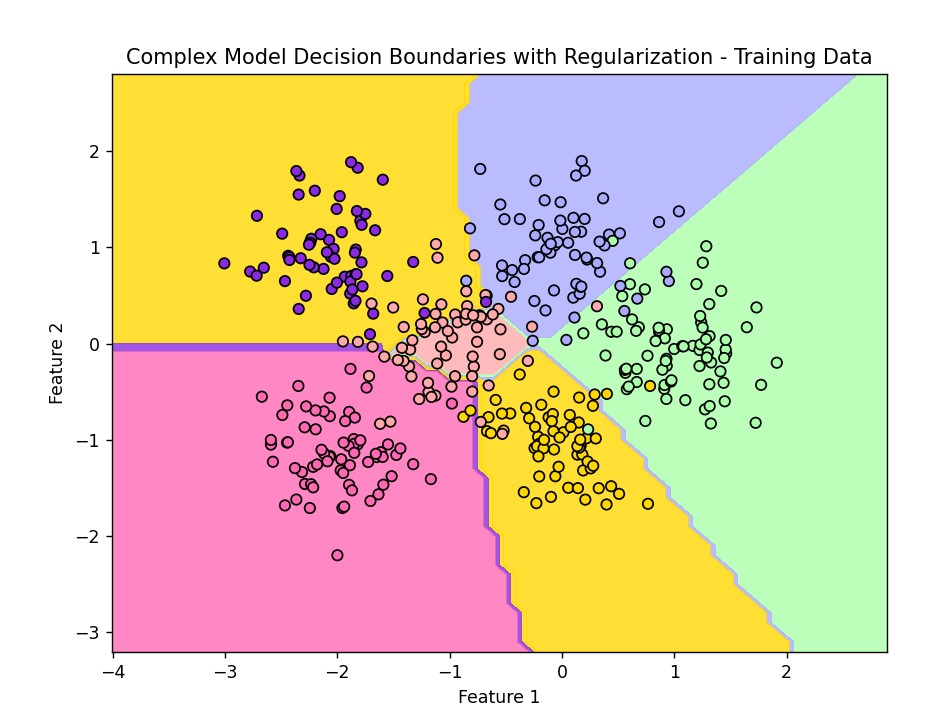
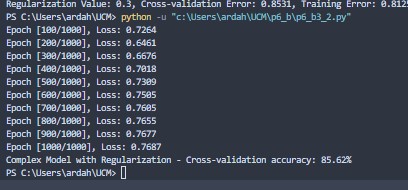


Part 4

* We will regularize the complex model



* Accuracy rate seems way lower than it should be… I wasnt able to solve this issue

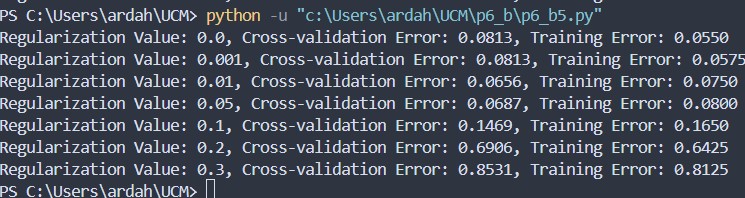


Part 5

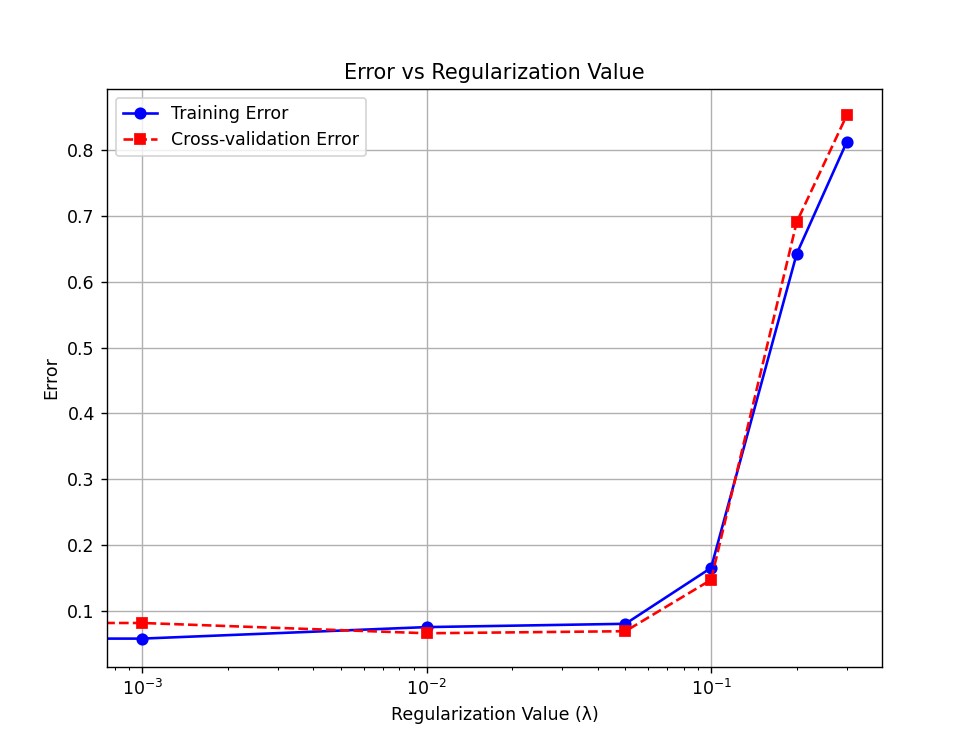
* We need to find the most optimal lambda by trying different lambdas



* For me “0.1” seemed to be the most optimal, which contradicts with the actual results

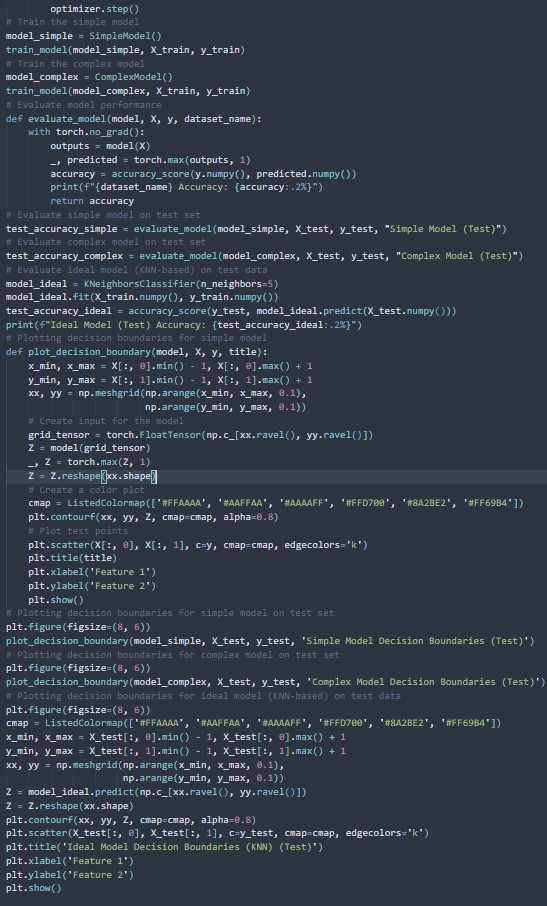
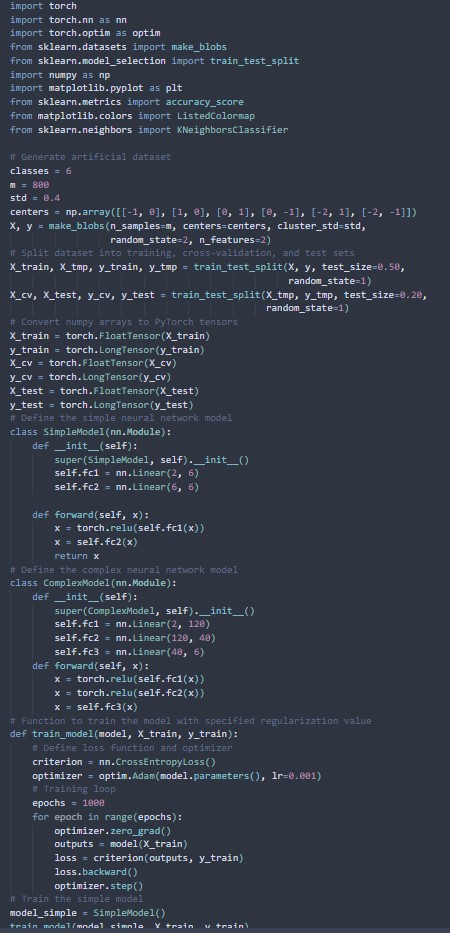


* This is the graph I obtained:



Part 6

* We will use the X\_test to test the models…



* These are the accuracy rates…

