



Exercises Week 7

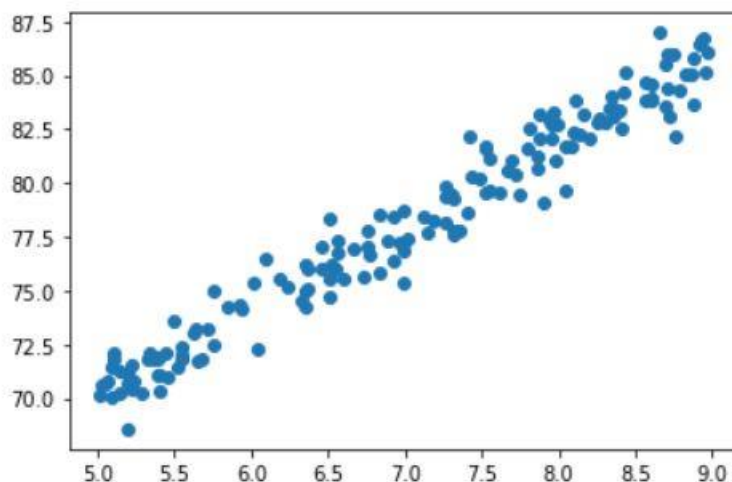
ITA Machine Learning.

The exercises this week are a bit more “open-ended” than you have seen before. But use the techniques that you have been introduced to, so far, in this course,

Work in groups of 2-3.

Exercise 1.

You are given a dataset, StudentMarks.csv, where it appears that the number of study hours is related to grades.



Verify by running the notebook “Student Mark Predictor.ipynb”.

Then try to make some clusters. Is it possible to make 3 clusters that indicate, approximately, the amount hours that will put a student in the bottom third, the middle group, and the top group?

Make a plot of your results, using techniques presented earlier in this course.

(If you need to recombine arrays, Numpy commands like:

```
combined = np.column_stack((X_train, y_train))
```

might be useful?)

