

## **Machine Learning SIG :**

Tentative Timeline for the Machine Learning SIG

### **May 20st to May 26th**

- Corey Schafer Youtube Videos
  - recommended at least 5 to 6 videos a day.
- Youtube Channel :  
Corey Schafer Python Tutorials
- (1) 1 - 9 Videos
- (2) 13 -16 Videos
- (3) 19 - 23 Videos
- (4) 25 Video
- (5) 30
- (6) 33 - 42

### **May 27th to June 3rd**

- Andrew Ng Machine Learning : Weeks 1 to 4

### **June 4th to June 10th**

- Andrew Ng Machine Learning : Weeks 5,6
  - 4 Machine Learning Libraries :
    - Numpy
    - Pandas Dataframe
    - Scikit - Learn
    - Matplotlib
- TASK1

### **June 11th to June 17th**

- Andrew Ng Machine Learning : Weeks 7,8,9
- TASK2

### **June 18th to June 27th**

- Machine Learning Project (Practical - 1)

### **June 28th to June 30**

- Module 1 of deeplearning.ai

### **July 1st to July 8th**

- Module 2 of deeplearning.ai

### **July 8th to July 15th**

- Either CNN Module or RNN Module of deeplearningai

### **July 16 -20**

Machine Learning Practical-2

### Extra Resources for studying ML:

- <https://github.com/prakhar1989/awesome-courses#machine-learning> (University Courses to learn ML)
- <http://www.holehouse.org/mlclass/> ( Short notes of the Andrew NG Course for quick revision)
- <https://www.quora.com/topic/Machine-Learning/writers> ( Most Viewed writers in ML)
- <http://www.dataschool.io/15-hours-of-expert-machine-learning-videos/> ( An alternative to learning ML other than Andrew NG)
- <https://github.com/hangtwenty/dive-into-machine-learning>

### Linear Regression (Week 1 and Week 2):

- <http://cs229.stanford.edu/notes/cs229-notes1.pdf> (Linear Regression from a Mathematical perspective)
- <http://cs229.stanford.edu/section/cs229-linalg.pdf> (Linear Algebra Concepts)
- <http://people.duke.edu/~rnau/regintro.htm> (Another comprehensive guide to Linear Regression)
- <http://www.dataschool.io/applying-and-interpreting-linear-regression/> (Handy Resource for learning to apply Regression in projects)

### Logistic Regression (Week 3)

- <http://cs229.stanford.edu/notes/cs229-notes1.pdf> (Logistic Regression from a Mathematical perspective)
- <https://florianhartl.com/logistic-regression-geometric-intuition.html>
- [https://en.wikipedia.org/wiki/Logistic\\_regression](https://en.wikipedia.org/wiki/Logistic_regression) ( Just read the relevant portion)
- <https://stats.stackexchange.com/questions/25389/obtaining-predicted-values-y-1-or-0-from-a-logistic-regression-model-fit>
- [https://github.com/rasbt/pattern\\_classification/blob/master/machine\\_learning/supervised\\_intro/introduction\\_to\\_supervised\\_machine\\_learning.mdn](https://github.com/rasbt/pattern_classification/blob/master/machine_learning/supervised_intro/introduction_to_supervised_machine_learning.mdn) (Steps for solving Classification Problems)

### Neural Networks (Week 4,5)

- [http://cs229.stanford.edu/notes/cs229-notes-deep\\_learning.pdf](http://cs229.stanford.edu/notes/cs229-notes-deep_learning.pdf) (For a mathematical perspective)
- <https://ujjwalkarn.me/2016/08/09/quick-intro-neural-networks/> (Excellent Blog that offers a simple introduction to neural nets)
- <https://ai.googleblog.com/2015/03/large-scale-machine-learning-for-drug.html> (Blog by Google on AI topics. Good resource to read about emerging trends and technologies.)