**AI/Machine Learning Study Plan**

**List of Resources**

* AI Book
* ML Book
* SCIKIT-LEARN by setndex: <https://www.youtube.com/watch?v=OGxgnH8y2NM&list=PLQVvvaa0QuDfKTOs3Keq_kaG2P55YRn5v&index=1>
  + <http://scikit-learn.org/stable/supervised_learning.html>
* Python Jupyter (<http://jupyter.org/install.html>)
* Google “Perceptron tutorial”:
  + <https://machinelearningmastery.com/implement-perceptron-algorithm-scratch-python/>
* Optimal Number of Features article: <https://academic.oup.com/bioinformatics/article/21/8/1509/249540>
* Most asked ML Interview questions: <https://cloudxlab.com/blog/machine-learning-interview-questions/?utm_source=reddit.com>
* DR. ISBELL’S COURSE: <https://classroom.udacity.com/courses/ud262>
* AWESOME SCIKIT LEARN TUTORIALS: <https://www.youtube.com/user/cristivlad25/videos>

**Terms to Learn ASAP:**

* Inductive Bias: ML Chapter 2.7
* Bias and Variance
* Target function: ML Chapter 1
* Utility Function

**Important Sections to Read**

* ~~Cross-validation: AI Chapter 18.4~~

**Decision Trees**

* AI Book Chapter 18.3
* ML Book Chapter 3 **(read 3.7.1 in particular!)**
* Read the Research Paper

**Neural Networks**

* AI Book Chapter 18.7
* ML Book Chapter 4
* 3Blue1Brown: <https://www.youtube.com/watch?v=aircAruvnKk&list=PLZHQObOWTQDNU6R1_67000Dx_ZCJB-3pi>
* Stanford: <https://www.youtube.com/watch?v=vT1JzLTH4G4>

**Boosting**

* AI Book Chapter 18.10

**k-Nearest Neighbors**

* ML Book Chapter 8
  + 8.3
* AI Book Chapter 18.8

**Support Vector Machines**

* ~~AI Book Chapter 18.9~~
* ML Book Chapter 8
  + 8.4

Orange Canvas:

<https://www.youtube.com/watch?v=HXjnDIgGDuI&list=PLmNPvQr9Tf-ZSDLwOzxpvY-HrE0yv-8Fy&index=1>