Artificial Intelligence Learning Roadmap Part 1

- 1. Basic of python and important libraries:
 - i. TensorFlow
 - ii. NumPy
 - iii. Keras
 - iv. Scipy
- 2. What is AI? History of AI?
- Difference between Artificial Intelligence & Machine learning?
- 4. Difference between Supervised & Unsupervised & Reinforcement Learning?
- 5. Basic Algorithms of Supervised Learning:
 - i. Decision Tree
 - ii. Linear Regression
 - iii. K-nearest neighbor
 - iv. Logistic Regression
 - v. Artificial Neural Network
 - vi. Support Vector Machine (SVM)

Note: Explore each algorithm with some examples

- 6. Basic Algorithms of Unsupervised Learning:
 - i. K-Means
 - ii. Principal Component Analysis
 - iii. Multi-Layer Perceptron (MLP)

Note: Explore each algorithm with some examples

7. Detail of Reinforcement Learning?

Reference Material:

For implementation: --- Hands-on Machine Learning with Scikit-Learn, Keras & TensorFlow Concepts, Tools, and Techniques to Build Intelligent Systems By O'REILLY

For theory(optional): Machine Learning By tom Mitchells Introduction to Machine Learning Second Edition By Ethem Alpaydin.

v. pytorch
vi. Scikit-learn
vii. Matplotlib
viii. Pandas

