Define Goal: PRODUCTS or ALGORITHMS

1. Maths

- Linear Algebra (Matrix, Vector)
- Statistics
- Probability

2. Learn Python & its Libraries

- Numpy
- Pandas

3. Learn ML Algorithms

- Supervised vs Unsupervised vs Reinforcement
- Linear Regression, Logistic Regression, Clustering
- KNN (K Nearest Neighbours)
- SVM (Support Vector Machine)
- Decision Trees
- Random Forests
- Overfitting, Underfitting
- Regularization, Gradient Descent, Slope
- Confusion Matrix

4. Data Preprocessing (for higher accuracy)

- Handling Null Values
- Standardization
- Handling Categorical Values
- One-Hot Encoding
- Feature Scaling

5. Learn ML libraries

- Scikit learn
- Matplotlib
- Tensorflow for DL

6. Practice, Practice (Kaggle)

*Explore projects on Github

Resources:

- 1. http://www.maths.qmul.ac.uk/~pjc/notes/linalg.pdf (Maths)
- 2. https://www.mathsbox.org.uk/twi/astats.pdf (Maths)
- 3. https://www.youtube.com/playlist?list=PLLy_2iUCG87D1CXFxE-SxCFZUiJzQ3lvE (Maths)
- 4. https://developers.google.com/machine-learning/crash-course (ML by Google)
- 5. https://www.datacamp.com/courses/intro-to-python-for-data-science (Python Basics)
- 6. https://www.coursera.org/learn/machine-learning (Stanford Course by Andrew ng)
- 7. https://madewithml.com/
- 8. https://www.javatpoint.com/data-preprocessing-machine-learning (Data Preprocessing)
- 9. https://scikit-learn.org/stable/ (Scikit Learn)
- 10. https://www.tensorflow.org/ (Tensorflow)
- 11. https://www.kaggle.com/ (Kaggle)