**Define Goal : PRODUCTS or ALGORITHMS**

1. **Maths**

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

1. **Learn Python & its Libraries**

* Numpy
* Pandas

1. **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

1. **Data Preprocessing (for higher accuracy)**

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

1. **Learn ML libraries**

* Scikit learn
* Matplotlib
* Tensorflow for DL

1. **Practice, Practice, Practice (Kaggle)**

**\*Explore projects on Github**

**Resources :**

1. [**http://www.maths.qmul.ac.uk/~pjc/notes/linalg.pdf**](http://www.maths.qmul.ac.uk/~pjc/notes/linalg.pdf) **(Maths)**
2. [**https://www.mathsbox.org.uk/twi/astats.pdf**](https://www.mathsbox.org.uk/twi/astats.pdf) **(Maths)**
3. [**https://www.youtube.com/playlist?list=PLLy\_2iUCG87D1CXFxE-SxCFZUiJzQ3IvE**](https://www.youtube.com/playlist?list=PLLy_2iUCG87D1CXFxE-SxCFZUiJzQ3IvE) **(Maths)**
4. [**https://developers.google.com/machine-learning/crash-course**](https://developers.google.com/machine-learning/crash-course) **(ML by Google)**
5. [**https://www.datacamp.com/courses/intro-to-python-for-data-science**](https://www.datacamp.com/courses/intro-to-python-for-data-science) **(Python Basics)**
6. [**https://www.coursera.org/learn/machine-learning**](https://www.coursera.org/learn/machine-learning) **(Stanford Course by Andrew ng)**
7. [**https://madewithml.com/**](https://madewithml.com/)
8. [**https://www.javatpoint.com/data-preprocessing-machine-learning**](https://www.javatpoint.com/data-preprocessing-machine-learning) **(Data Preprocessing)**
9. [**https://scikit-learn.org/stable/**](https://scikit-learn.org/stable/) **(Scikit Learn)**
10. [**https://www.tensorflow.org/**](https://www.tensorflow.org/) **(Tensorflow)**
11. [**https://www.kaggle.com/**](https://www.kaggle.com/) **(Kaggle)**