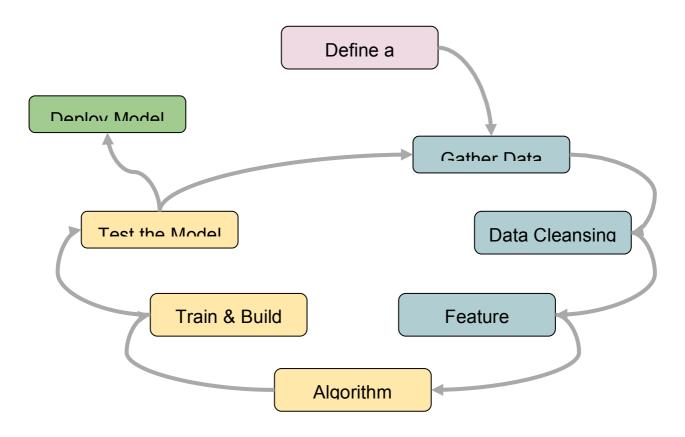
Machine Learning Life Cycle



1. Define a Problem

- Classification
- Regression
- Clustering
- Recommendation

Example: Predict whether a e-commerce user buys a product or not

2. Gather Data

- Databases
- File Storage
- Web

3. Data Cleansing & Preparation

- Erroneous data
- Missing Value Treatment

Tools used:

- pandas
- numpy

• Jupyter Notebooks or plain Python scripts

4. Feature Engineering

Converting raw data into ml-algorithm consumable format

5. Algorithm Selection

Chose the algorithm based on,

- problem
- data type and size
- computation capacity

6. Train & Build Model

Feed the training data into the algorithm, you will get a model!

7. Test the Model

Evaluate how accurate your model is. Different ways to measure the accuracy of different types of problems.

8. Deploy Model

If satisfied with the results, go ahead and start using your model on real-world data.