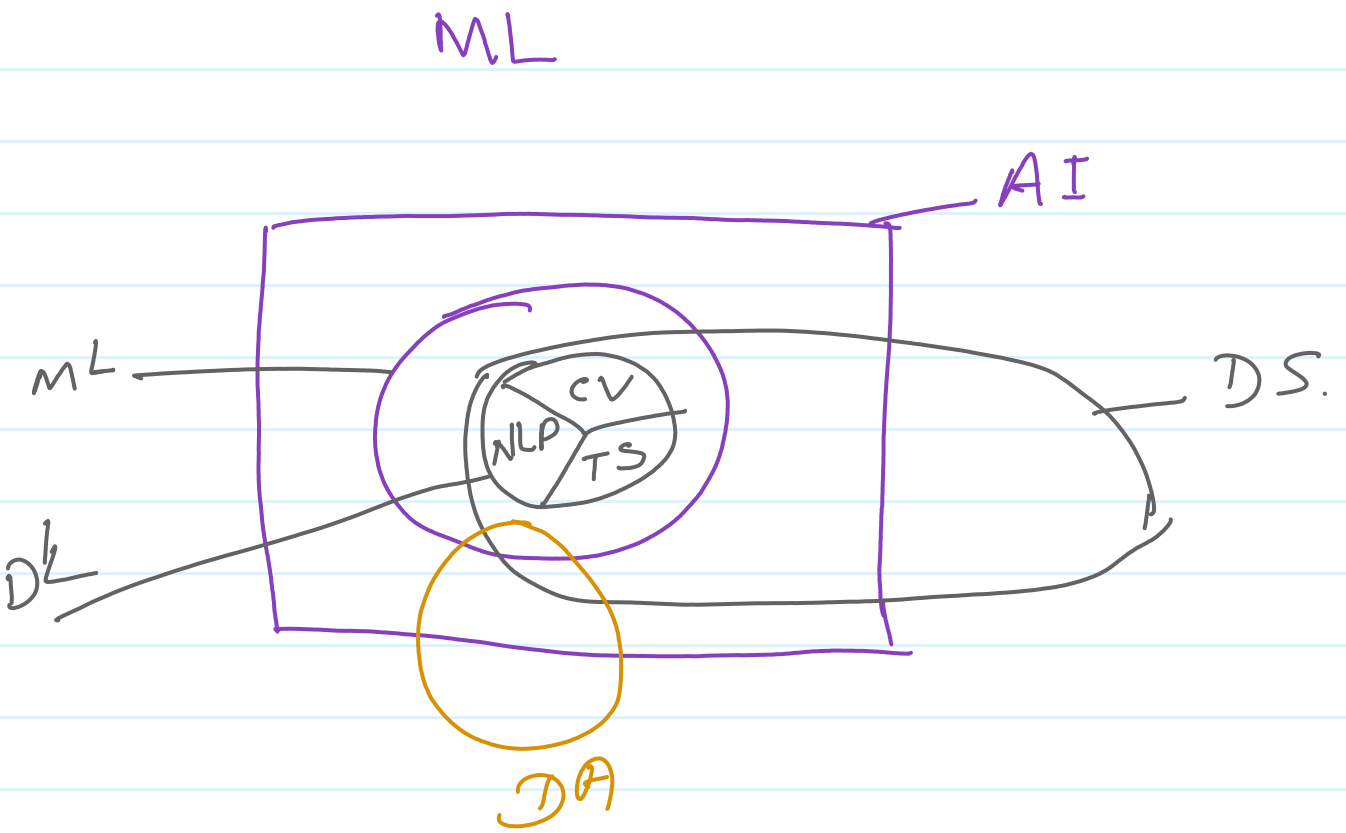


Machine Learning

- Supervised ML
  - Regression
  - classification
- Unsupervised ML
  - cluster/grouping

Regression

result - continous variable
[Decimal] cm - 1 cm
2.5 cm
1.11 cm
0.7 cm

1. Linear Regression
2. Lasso Regression
3. Ridge Regression
4. Elasticnet Regression
5. Support vector Regression
6. Decision Tree Regression
7. Random forest Regression
8. Gradient boost Regression
9. Ada boost Regression
10. X G. boost Regression

(11) KNN Regression

classification

Descrete variable - [T/F, P/F, M/F/T

[10th/12th/Grad/PG/PhD]

(1) Logistic Regression

(2) Support vector classification

(3) Decision Tree classi

(4) Random forest class.

(5) Ada boost class.

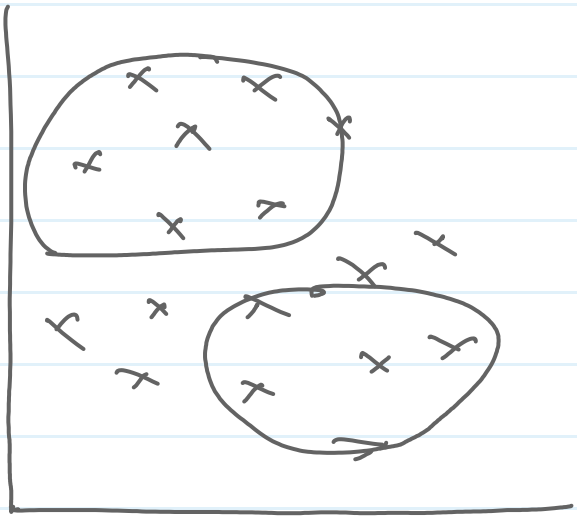
(6) Gradient boost class.

(7) XG boost class.

(8) K-nearest neighbour classi.

Unsuper learning.

cluster | Group



1. kmean
2. kmean ++
3. DB scane
4. Hirarchical clustering.

SVM - Support vector machine

DT

Ensemble Technique.

- Bagging
- Boosting
- Stacking.

Bagging ⟹ RF

- Regr.
- class.

Boosting

Ada / Gradient / Xtreame Gradient boost

- Reg.
- class.

K nearest neighbors

Data

RL ( )

evaluate

↓

hyperparameter tunning.

↓

Train