machine learning

AJ

DS

ML

DL

DA

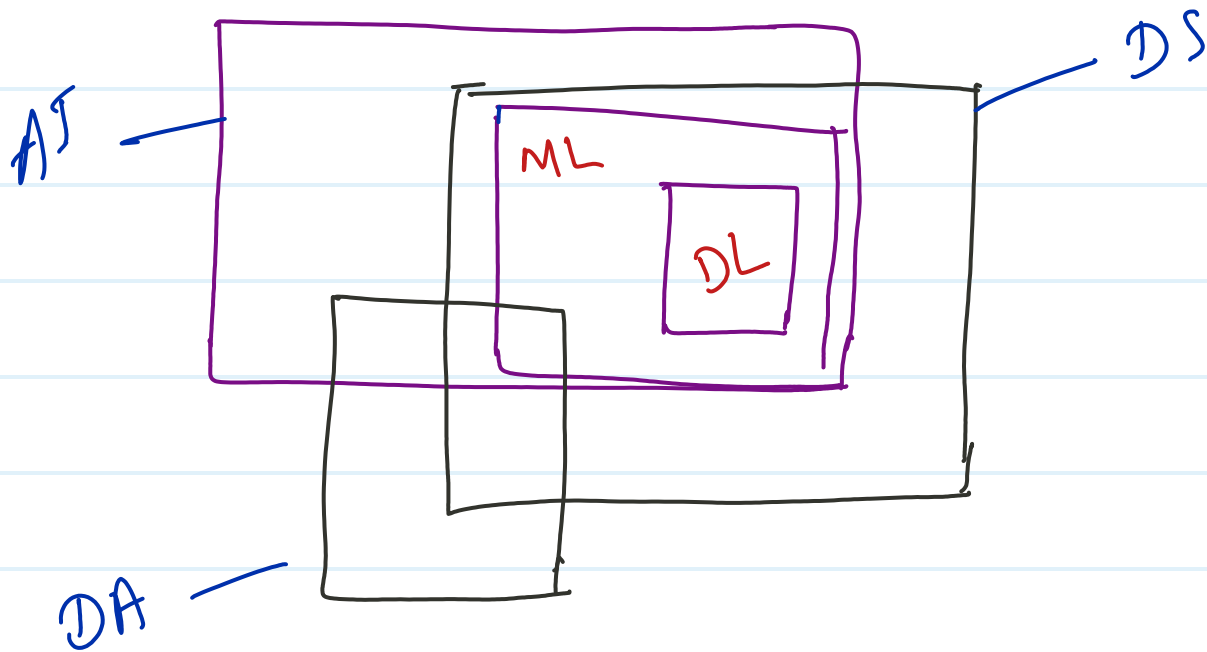## Machine learning type

|

Supervised ML   unsupervised ML

Label data   Unlabel data

X y   X X

supervised ML

Regression	classification
① Linear Reg.	① logistic Regr.
② Lasso L1	② Naiv bay's
③ Ridge L2	③ KNN C
③ ElasticNet	④ SVC
④ KNN R	⑤ DT C
⑤ SVR	⑥ RF C
⑥ DTR	⑦ Ada boost C.
⑦ RFR	⑧ Gradient boost C
⑧ Ada boost R	⑨ XG boost C.
⑨ Gradient boost R.	
⑩ XG boost R.	
⑪ Polynomial Reg.	

Unsupervised

clustering / Grouping

① K mean clustering
② K mean + +
③ Hirerchical clustering
④ DB scan
⑤ Apriory Algorithem

VI) PCA

Time series

① Arima

② Sarima

1. missing value handing
2. Encoding
3. Scalling
4. outlier / Noise / anomalies detection
5. Distribution transformation
6. Feature Engg.
7. Feature selection
8. EDA
9. Hyperparameter tuning
10. model save
11. Deployment