Linear Regression Algorithm
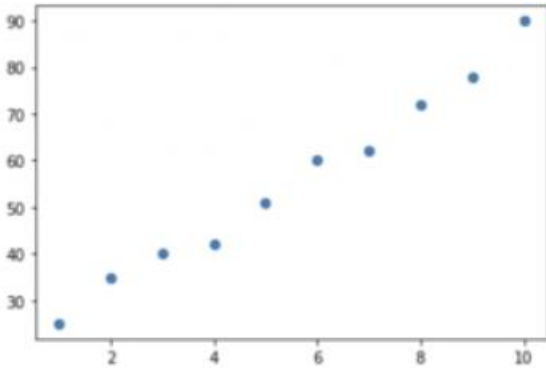
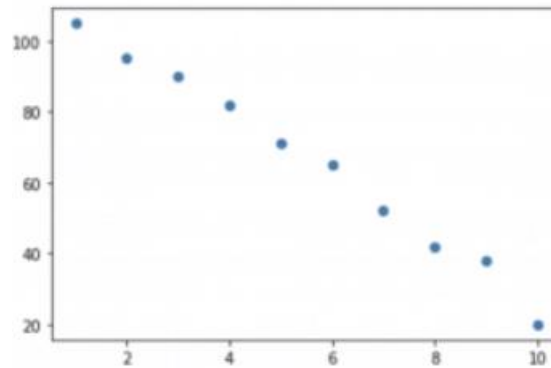$$Y = MX + C$$

Ref: https://www.borntodev.com/2021/08/26/ทำความรู้จัก "Linear Regression" Algorithm ที่คนทำ Machine Learning ยังไงก็ต้องได้ใช้!
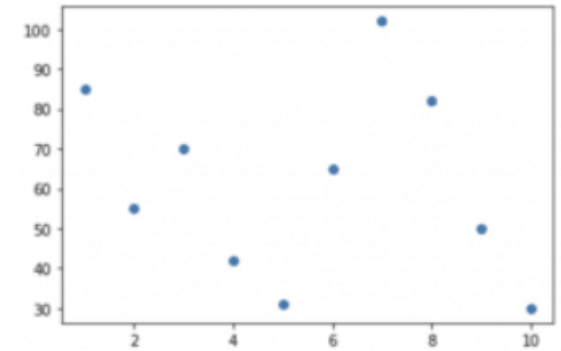
Relationship of linear regression

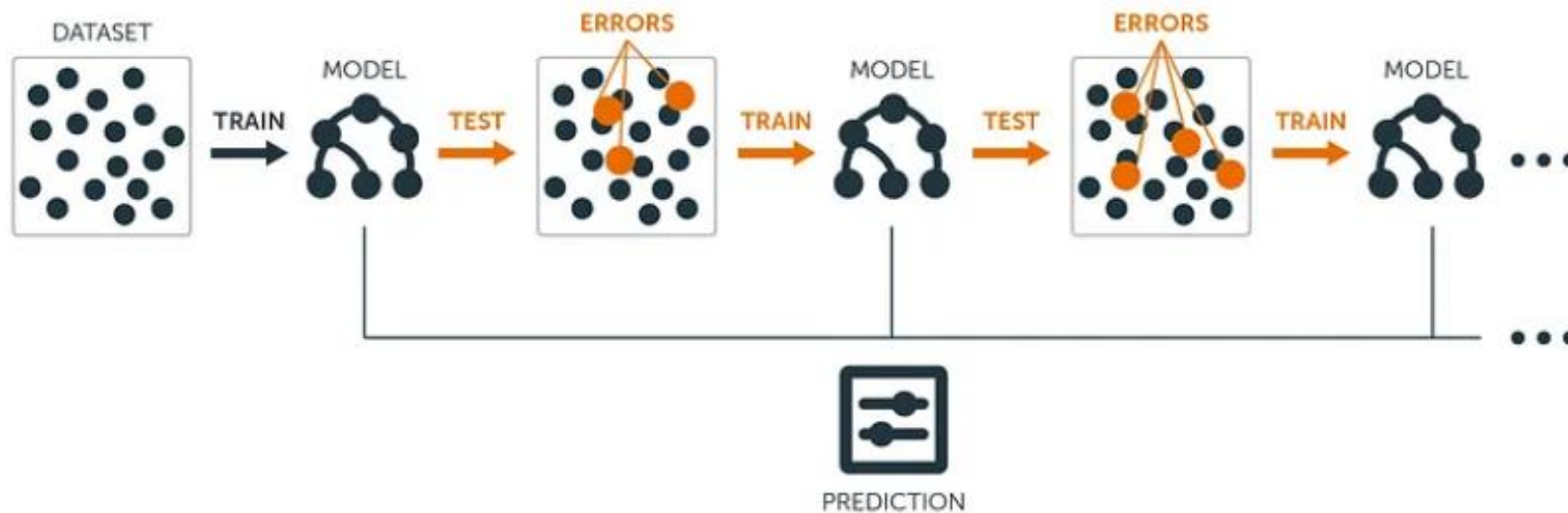Positive Linear
Relationship

Negative Linear
Relationship

No Apparent Linear
Relationship

Gradient boosting Algorithm

Ensemble learning method

Bagging → Random Forest

Boosting → Gradient boosting, AdaBoost, XGBoost

```
from sklearn.tree import DecisionTreeRegressor


tree_reg1 = DecisionTreeRegressor(max-depth=2)

tree_reg1.fit(X, y)
```

First trial !!

```
y2 = y - tree_reg1.predict(X)

tree_reg2 = DecisionTreeRegressor(max-depth=2)

tree_reg2.fit(X, y2)
```

Second trial !!

```
y3 = y2 - tree_reg2.predict(X)

tree_reg3 = DecisionTreeRegressor(max-depth=2)

tree_reg3.fit(X, y3)
```

Third trial !!

Thank you for your attention