**Regularizations:**

techniques used to generalize your model and reduce the error

**by** fitting function to avoid overfitting.

**Under Fitting :** not learn (poor performance in train and test)

**Well Fitting :** well learn ( good performance in train and test)

**Over Fitting :** summerizing (good performance in train and bad in test)

**We can solve OverFitting by Regularizations (Ridge , Lasso)**

By adding term at the end of cost function

**Lasso:** the term in Lasso is summation of all weights\*small number

this show if Wj is cause of overfitting it will be zero



**Ridge:**the term in Ridge is square of all weights\*small number

if Wj is cause of overfitting it will be near to zero

