(1) Ridge & Lacso Regración is 1515 se sullos) 11 sofisti "energy of court fatures too (2000)

Ridge Regression

- Cost function in case of Ridge Regression.

$$CF = \sum_{i=1}^{n} (y_i - \sum_{j=1}^{n} \sum_{j=1}^{n} \beta_j)^2 + \lambda \sum_{j=1}^{n} \beta_j^2$$
From Linear Regression.

La Regularization.

- -> The reduce variance in Linear Regression Hodel.
- Linear Regression Hodel. -> This in creases bias in
- -> This prevents overfitting.
- → This reduces model complixity. & over-fitting.
- -> This puts contraints on the wefficients (w)
- -> I (penalty term) reduces overall stope
- -> So, Ridge Regression shrinke wefficients and helps to reduce model complexity & multi-cotineanity.

Lauso Regression

-> bolt function in case of Lacco Regression.

- -> Reduces variance, Increases bia, Reduces overfilting. & complexie
- >> 2 (penalty term) reduces overall sloge and 12 learnet through cross-validation I by perparameter tunis.
- as constraints B
- -> Reduces multi-collineaning

Helps in flature selection as reduces stope of some (with course of some) features to 0 (zero).