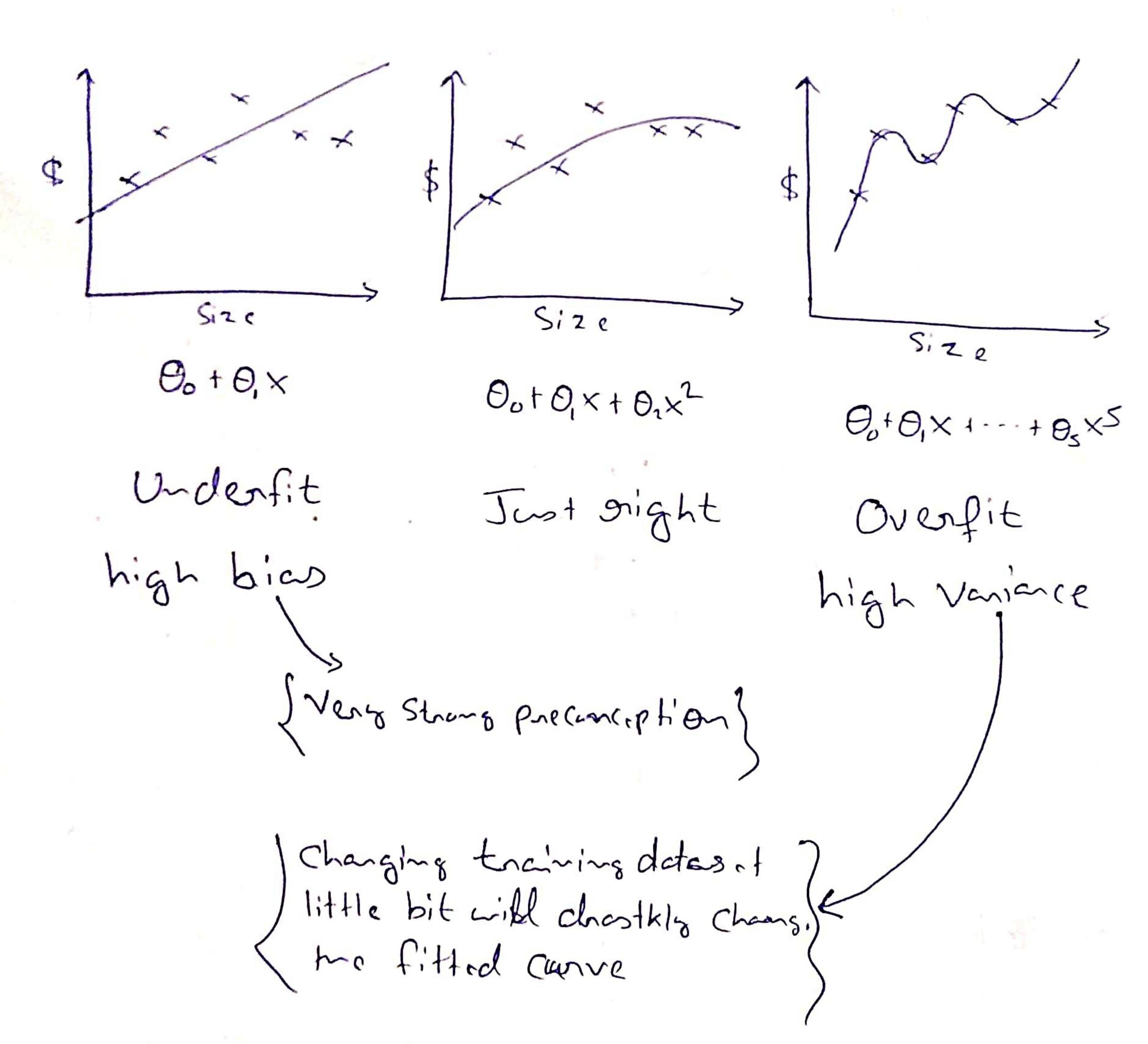
S

Octa Split, Models & Gross-Validation

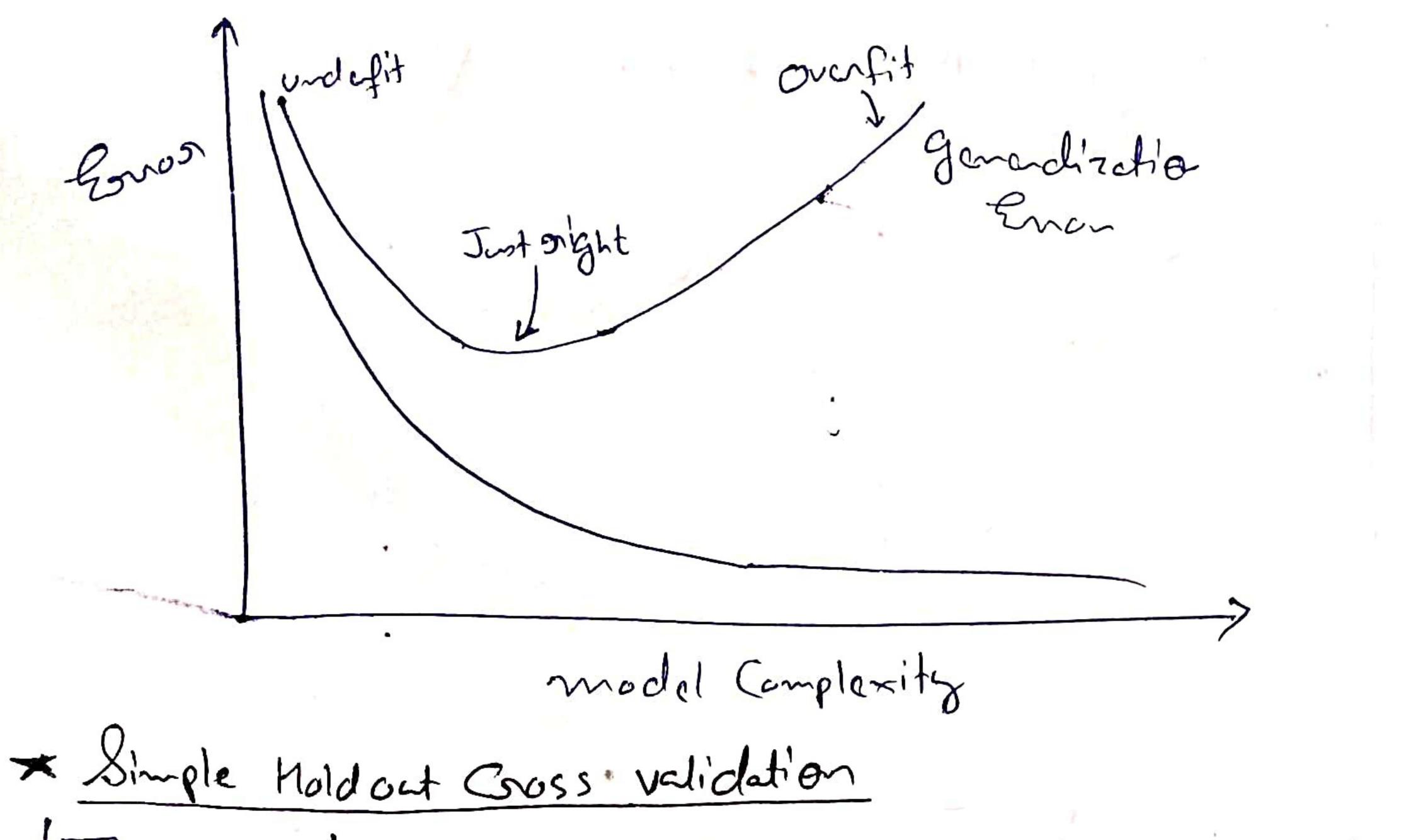


=> One of the most effective wass to privat overfitting is oregunalization.

* Regundization

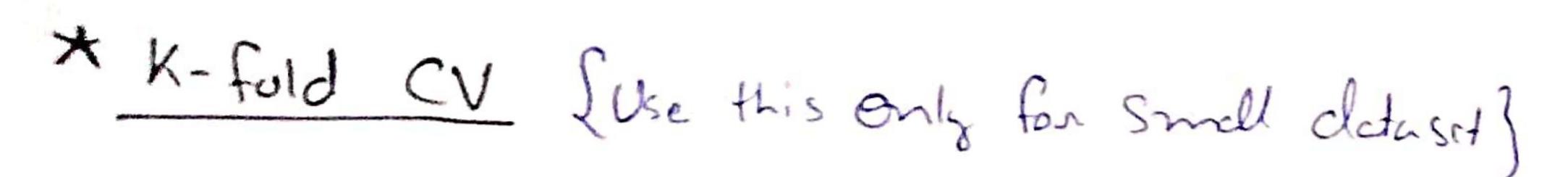
min $\frac{1}{2} \sum_{i=1}^{\infty} ||y^{(i)} - 0^T x^{(i)}||^2 \int Cost function for dinour segments ion }$ After siegnotization

min $\frac{1}{2} \sum_{i=1}^{\infty} ||y^{(i)} - 0^T x^{(i)}||^2 + \frac{\lambda}{2} ||0||^2$



=> Torain each model on Straing Lo Chet Sime hospothesis hi

- Dre with lowest error on Sder.
- => Evolun tre algorithm on Separte Stest and propost that esnoon.



=> Divide delasit into most K. Subsots.

-> Fos i=1 .-. K

-> Tomin on K-1 piccos

-> Tost on the oremains 1 pirce

-> Toko Avenege.

> Refit the bost mode. found on 100% of the data

* Feature Selection

Start win F= \$\phi\$
Report

Forward Search

- 1) Tong adding each feature to F, and See which feature addition, most improved the devocal performance.
 - 2) Add hid feature to F.