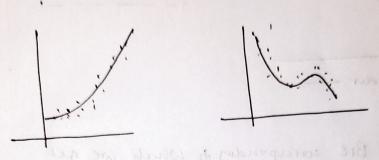
Polynomial Linear Regression.

- Linear: y= Do + Dix.
- -> Polynomial liner + y = Do + DIX + 02x2 -... Bux

ATTUR can fit a broader range of functions.



-> This is still linear because all wifficients are of degree one, (home linear). power of features make curre non-linear.

[Here aquation is shown for only I feature]

_ Onthier affect this model and heffective choosing of order can cause overfrontly lunder fitting.

Bayes Information Criterion = n log (986) + k log (n) (BICK)

Kz model order le number of parameter 12 Number of data points
SSC = Sum of square of residuals (Squared summed error)

Find BIC for a lot of parameter number. Then plot it vs k (polynomial order)

Polynomial linear Regression Look for minimum point This is the BIC corresponding to which we get the ophinal orders sunse want the a suff degree on, (name linear), powers of features waske