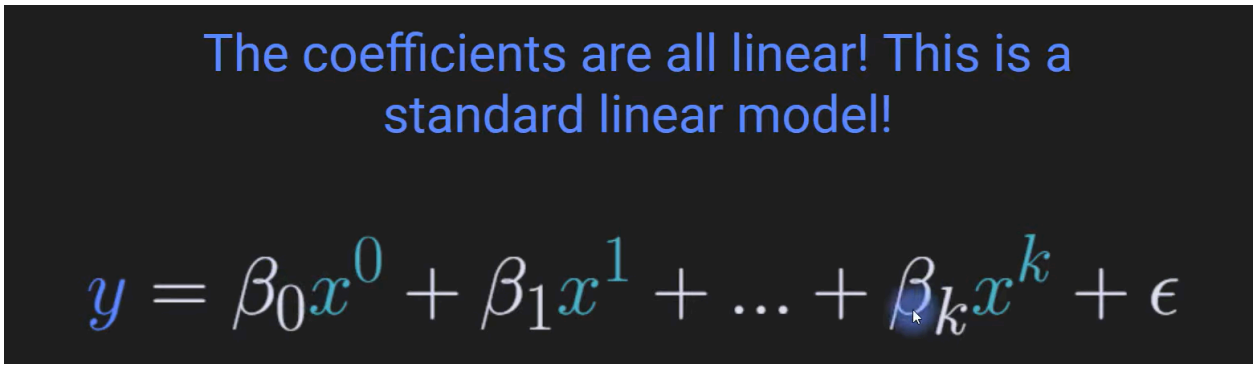
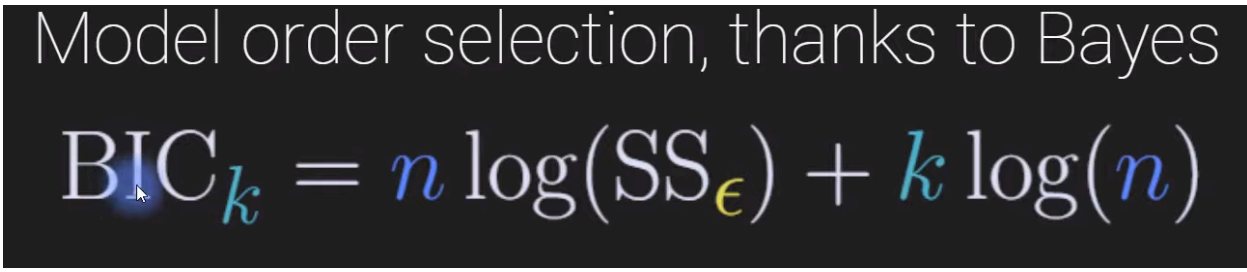
What is it:

- "a form of Linear regression where only due to the Non-linear relationship between dependent and independent variables"
    - https://www.analyticsvidhya.com/blog/2021/07/all-you-need-to-know-about-polynomial-regression/#:~:text=Polynomial%20regression%20is%20a%20form,convert%20it%20into%20Polynomial%20regression.

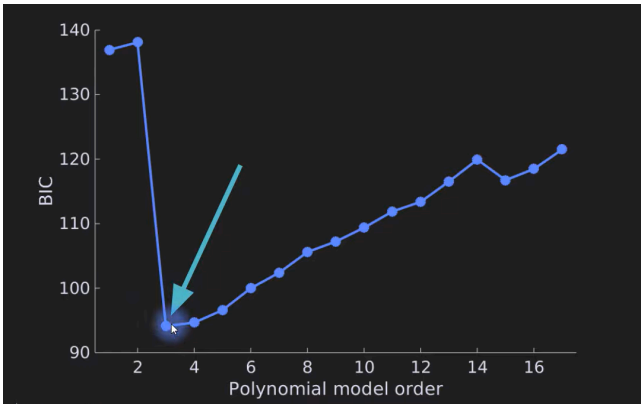
- Used for non-linear data
- Equation
    - y = a0 + a1x1 + a2x12 + … + anx1n
        - x independent data
        - y dependent data

Polynomial Regression Video

- 

- **How to figure out model order**
    - 

    - n
        - Number of data points
    - SS_E
        - Sum of squared residuals
    - k
        - Number of parameters

- 

    - The minimum value is the polynomial model we want