This is for non-linear datasets where multiple linear regression cannot be relevant

**Dataset**

For this we use Position and salary dataset

We are using simple dataset

**Scenario:**

The Human Resources department wants to hire someone

A person is offered a position with tedious interviews

Now we have to determine the salary expectation

Now the person is asking 160000 $

Now the person says, that I have earned the same in my previous position

The company need to at least meet the previous salary

The Hr department wants us to determine if the statement is true or bluff

This will be determined using polynomial regression model to build previous salary of the candidate

Dataset: salaries of different companies from business analyst to CEO

Compare the salaries of different positions to this person designation and company

**Assumptions:**

**According to the person Resume and Profile:**

On LinkedIn it shows the person has been a regional manager

this person has been manager for past 2 years

In this, now depending on person experience and designation the company considered the **level of person to be 6.5**

By this assumption, I have built the polynomial regression model

NOTE: In this model, I have run the predictions on both linear and polynomial regression and show the variance on why later is better than the former one

This model displays the results of both