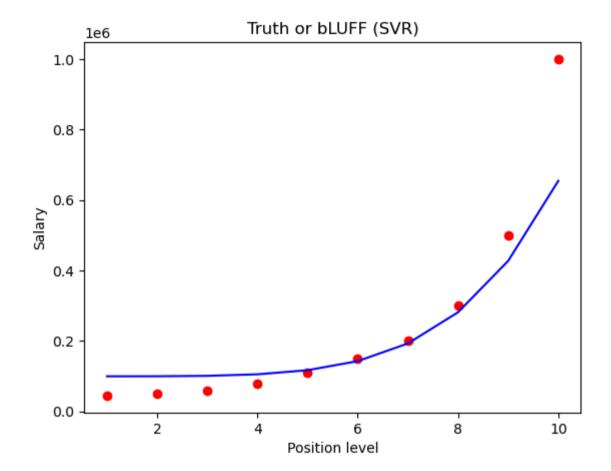
## **SVR - Support Vector Regressor**

```
In [2]: #importing the libraries
        import numpy as np
        import pandas as pd
        import matplotlib.pyplot as plt
In [3]: # importing the dataset
        dataset=pd.read csv(r"C:\Users\Jan Saida\Downloads\emp sal.csv")
        dataset
Out[3]:
                     Position Level
                                      Salary
        0 Jr Software Engineer
                                      45000
        1 Sr Software Engineer
                                      50000
         2
                    Team Lead
                                      60000
         3
                     Manager
                                      80000
         4
                   Sr manager
                                     110000
        5
               Region Manager
                                     150000
         6
                         AVP
                                     200000
        7
                                     300000
                          VΡ
         8
                        CTO
                                     500000
                                10 1000000
                        CEO
In [4]: x=dataset.iloc[:, 1:2].values #independent variable
        y=dataset.iloc[:, 2].values
                                       #dependent variable
```

```
In [5]: x
Out[5]: array([[ 1],
               [2],
               [3],
               [4],
               [5],
               [6],
               [7],
               [8],
               [ 9],
               [10]], dtype=int64)
In [6]: y
Out[6]: array([ 45000,
                          50000,
                                   60000,
                                            80000, 110000, 150000,
                                                                     200000,
                         500000, 1000000], dtype=int64)
                300000,
In [7]: # Fitting SVR to the dataset
        #imported the svr class from SKLEARN.SVM library
        from sklearn.svm import SVR
In [8]: #creating regressor object & for now understand kernal is use for linear, polynomial or non-linear svr which we will see indept
        regressor=SVR(kernel='poly',degree=5)
        regressor
Out[8]:
                    SVR
        SVR(degree=5, kernel='poly')
In [9]: # Fitting the SVR regressor
        regressor.fit(x,y)
```



In [ ]: