SUPPORT VECTOR REGRESSION

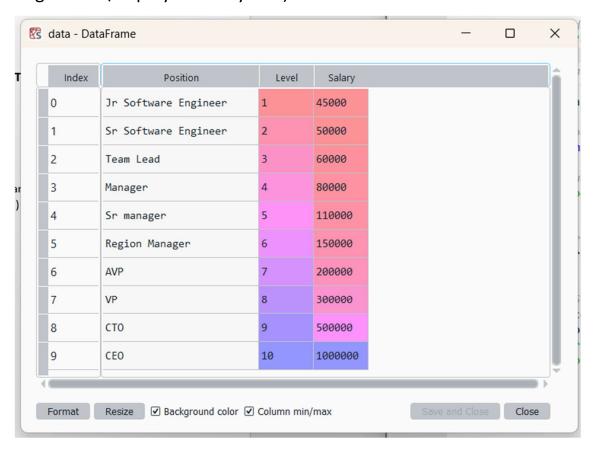
Importing Libraries

import pandas as pd

import matplotlib.pyplot as plt

let's import the dataset

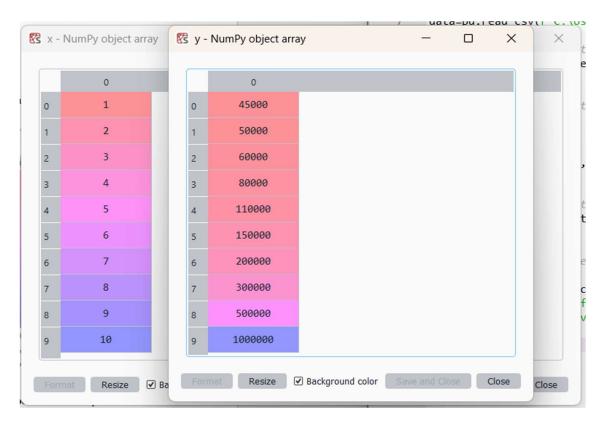
data=pd.read_csv(r"C:\Users\TharunMahendra\NIT\6.Algorithms\1. Regression\Employee-Salary.csv")



#lets divide the dataset into independent and dependent variables

x=data.iloc[:,1:2].values

y=data.iloc[:,2].values

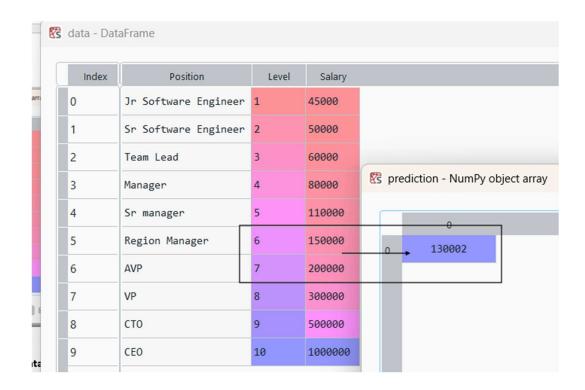


#fiiting the SVR model to the dataset

from sklearn.svm import SVR model=SVR() **Parameter Tuning** model.fit(x,y)

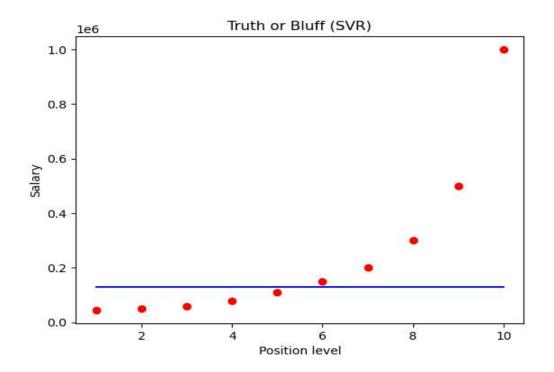
#predicting a new result

prediction=model.predict([[6.5]])
print(prediction)



Visualising the SVR results

```
plt.scatter(x, y, color = 'red')
plt.plot(x, model.predict(x), color = 'blue')
plt.title('Truth or Bluff (SVR)')
plt.xlabel('Position level')
plt.ylabel('Salary')
plt.show()
```



hyperParameter tuning

model=SVR(kernel='poly',degree=4,gamma='auto')

