Insurance Prediction

Step 1 :
In this I used One Hot encoding to transform Gender and Smoker data.

Because in our data set, gender and smoker columns have categorical values.

Step 2:
Here we have to predict the insurance charge value.

So I choose independent values ares ['age', 'bmi', 'children','sex_male', 'smoker_yes']

And dependent values is [‘price’]

Step 3:
After training and test split, I have implement on Linear Regression, Decision Tree, SVM, Random Forest models.

Step 4:
Here I show the result for above model r2_score values.

S.No	Method	R_Value	
1	Linear Regression	0.797864423680990 5	
2	Decision Tree	0.724269875037063 7	
3	SVM	-0.087119453863417 68	
4	Random Forest	0.873237102389133 7	