

SUPPORT VECTOR MACHINE (SVM)

SVM accuracy value (R2) for Hyper parameter c=10000, kernel='linear' is **0.9239**

```
from sklearn.svm import SVR  
regressor=SVR(c=10000,kernel='linear')  
regressor.fit(x_train,y_train)
```

Sl no	Regularization Parameter (C)	Linear (Kernal)	RBF – Non Linear (Kernal)	POLY (Kernal)	SIGMOID (Kernal)
1	Default 1.0	-0.0556	-0.0574	-0.0571	-0.0572
2	10	-0.0396	-0.0568	-0.0536	-0.0547
3	100	0.1064	-0.0507	-0.0198	-0.0304
4	500	0.5928	-0.0243	0.1146	0.0705
5	1000	0.7802	0.0067	0.2661	0.1850
6	2000	0.8767	0.0675	0.4810	0.3970
7	5000	0.9003	0.2124	0.7936	0.7306
8	10000	0.9239	0.3718	0.8129	0.8535