param\_grid={

'kernel':['linear', 'rbf', 'poly', 'sigmoid'],

'C': [0.01,0.1,0.2,0.5,0.8,1,5,10,25,50,75,100],

'gamma': [0.01,0.05,0.1,0.2,0.5,0.8,1],

'epsilon': [0.01,0.05,0.1,0.2,0.5,0.8,1]

}

k=5

regressor=SVR()

grid\_search=GridSearchCV(regressor,

param\_grid,

cv=k,

n\_jobs=-1)

grid\_search.fit(x\_train, y\_train)

best\_params=grid\_search.best\_params\_

best\_model=grid\_search.best\_estimator\_

print("best\_params: ", best\_params)

print("best\_model: ", best\_model)