Optimizing for AutoPVDBOW MAE

NN\_1:

reg = MLPRegressor(hidden\_layer\_sizes=(L\_1, 8, 1), activation='relu', solver='sgd',  
 max\_iter=10000, random\_state=random\_state)

Dataset: Auto

Train Scores: MSE: 1.0 MAE: 0.658

Test Scores MSE: 0.912 MAE: 0.656

Val Scores MSE: 0.97 MAE: 0.671

Dataset: AutoPVDBOW

Train Scores: MSE: 1.0 MAE: 0.658

Test Scores MSE: 0.913 MAE: 0.656

Val Scores MSE: 0.971 MAE: 0.671

Dataset: PVDBOW

Train Scores: MSE: 1.001 MAE: 0.659

Test Scores MSE: 0.915 MAE: 0.659

Val Scores MSE: 0.975 MAE: 0.675

SGD\_1:

reg = SGDRegressor(random\_state=random\_state, shuffle=True, loss='squared\_error', max\_iter=10000,  
 fit\_intercept=False)

Dataset: Auto

Train Scores: MSE: 1.007 MAE: 0.659

Test Scores MSE: 0.898 MAE: 0.66

Val Scores MSE: 0.988 MAE: 0.676

Dataset: AutoPVDBOW

Train Scores: MSE: 1.016 MAE: 0.662

Test Scores MSE: 0.899 MAE: 0.661

Val Scores MSE: 0.979 MAE: 0.676

Dataset: PVDBOW

Train Scores: MSE: 1.001 MAE: 0.659

Test Scores MSE: 0.913 MAE: 0.656

Val Scores MSE: 0.973 MAE: 0.673

SGD\_2: shuffle = False

else : #reg\_type == 'reg\_SGD'  
 reg = SGDRegressor(random\_state=random\_state, shuffle=False, loss='squared\_error', max\_iter=10000,  
 fit\_intercept=False)

Dataset: Auto

Train Scores: MSE: 1.002 MAE: 0.659

Test Scores MSE: 0.898 MAE: 0.659

Val Scores MSE: 0.982 MAE: 0.675

Dataset: AutoPVDBOW

Train Scores: MSE: 1.004 MAE: 0.66

Test Scores MSE: 0.897 MAE: 0.659

Val Scores MSE: 0.983 MAE: 0.678

Dataset: PVDBOW

Train Scores: MSE: 1.001 MAE: 0.659

Test Scores MSE: 0.913 MAE: 0.656

Val Scores MSE: 0.973 MAE: 0.673