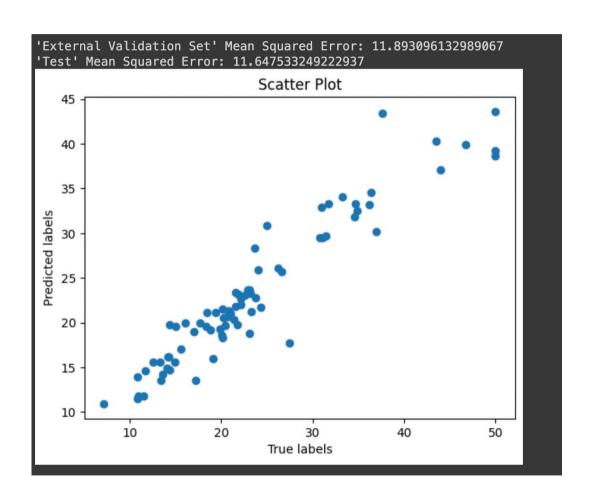
Boston Dataset Experiment

```
Best Hyperparameters: {'max_depth': 10, 'max_features': 3, 'n_estimators': 100}

v RandomForestRegressor

RandomForestRegressor(max_depth=10, max_features=3, random_state=42)
```



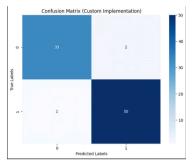
Breast Cancer Dataset Experiment

Hyperparameter tuning for Custom Adaboost

```
Best number of weak learners: 100
Accuracy for best number of weak learners: 0.9882352941176471
```

Classification report and confusion matrix for Custom Adaboost

Custom Implementation: Best Number of Weak Learners (n_estimators): 100 Classification Report:								
	precision	recall	f1-score	support				
0 1	0.97 0.96	0.94 0.98	0.96 0.97	35 51				
accuracy macro avg weighted avg	0.97 0.97	0.96 0.97	0.97 0.96 0.97	86 86 86				



Classification report and confusion matrix for SK Adaboost

SKLearn AdaBoost Classifier: Best Number of Weak Learners (n_estimators): 150 Classification Report:								
	precision	recall	f1-score	support				
0 1	0.97 0.94	0.91 0.98	0.94 0.96	35 51				
accuracy macro avg weighted avg	0.96 0.95	0.95 0.95	0.95 0.95 0.95	86 86 86				

