**Grid Search**

**AdaBoost: Max depth = 20**

Loading embeddings.

(997L, 128L)

(997L, 1L) (997L, 128L)

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Using classifier GridSearchAB

[80,20] [Train,Test] Split

Training for 50 classes.

Took 210.593999863 seconds

Testing error is 0.18

Cross Validation results:

Parameters: {'n\_estimators': 20} with validation score of 0.73

Parameters: {'n\_estimators': 60} with validation score of 0.789

Parameters: {'n\_estimators': 100} with validation score of 0.789

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Best validation score with params {'n\_estimators': 60} and validation score of 0.79

Took 0.0209999084473 seconds

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Using classifier GridSearchAB

[60,40] [Train,Test] Split

Training for 50 classes.

Took 154.530999899 seconds

Testing error is 0.218045112782

Cross Validation results:

Parameters: {'n\_estimators': 20} with validation score of 0.692

Parameters: {'n\_estimators': 60} with validation score of 0.769

Parameters: {'n\_estimators': 100} with validation score of 0.758

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Best validation score with params {'n\_estimators': 60} and validation score of 0.77

Took 0.0349998474121 seconds

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Using classifier GridSearchAB

[50,50] [Train,Test] Split

Training for 50 classes.

Took 133.411999941 seconds

Testing error is 0.27254509018

Cross Validation results:

Parameters: {'n\_estimators': 20} with validation score of 0.679

Parameters: {'n\_estimators': 60} with validation score of 0.751

Parameters: {'n\_estimators': 100} with validation score of 0.769

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Best validation score with params {'n\_estimators': 100} and validation score of 0.77

Took 0.069000005722 seconds

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Using classifier GridSearchAB

[40,60] [Train,Test] Split

Training for 50 classes.

Took 101.083999872 seconds

Testing error is 0.338898163606

Cross Validation results:

Parameters: {'n\_estimators': 20} with validation score of 0.704

Parameters: {'n\_estimators': 60} with validation score of 0.731

Parameters: {'n\_estimators': 100} with validation score of 0.726

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Best validation score with params {'n\_estimators': 60} and validation score of 0.73

Took 0.0500001907349 seconds

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Using classifier GridSearchAB

[20,80] [Train,Test] Split

Training for 50 classes.

Took 45.5 seconds

Testing error is 0.562656641604

Cross Validation results:

Parameters: {'n\_estimators': 20} with validation score of 0.528

Parameters: {'n\_estimators': 60} with validation score of 0.518

Parameters: {'n\_estimators': 100} with validation score of 0.523

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Best validation score with params {'n\_estimators': 20} and validation score of 0.53

Took 0.0260000228882 seconds

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