

Output

Accuracy with StopWords
Learning Rate: 0.0001 Epochs 1
Training Accuracy: 0.514 Test Accuracy: 0.498
Accuracy without StopWords
Learning Rate: 0.0001 Epochs 1
Training Accuracy: 0.391 Test Accuracy: 0.379
Accuracy with StopWords
Learning Rate: 0.0001 Epochs 2
Training Accuracy: 0.557 Test Accuracy: 0.540
Accuracy without StopWords
Learning Rate: 0.0001 Epochs 2
Training Accuracy: 0.469 Test Accuracy: 0.454
Accuracy with StopWords
Learning Rate: 0.0001 Epochs 10
Training Accuracy: 0.620 Test Accuracy: 0.600
Accuracy without StopWords
Learning Rate: 0.0001 Epochs 10
Training Accuracy: 0.559 Test Accuracy: 0.542
Accuracy with StopWords
Learning Rate: 0.0001 Epochs 50
Training Accuracy: 0.659 Test Accuracy: 0.638
Accuracy without StopWords
Learning Rate: 0.0001 Epochs 50
Training Accuracy: 0.616 Test Accuracy: 0.596
Accuracy with StopWords
Learning Rate: 0.0001 Epochs 200
Training Accuracy: 0.693 Test Accuracy: 0.672
Accuracy without StopWords
Learning Rate: 0.0001 Epochs 200
Training Accuracy: 0.680 Test Accuracy: 0.659
Accuracy with StopWords
Learning Rate: 0.0005 Epochs 1
Training Accuracy: 0.741 Test Accuracy: 0.718
Accuracy without StopWords
Learning Rate: 0.0005 Epochs 1
Training Accuracy: 0.728 Test Accuracy: 0.705
Accuracy with StopWords
Learning Rate: 0.0005 Epochs 2
Training Accuracy: 0.821 Test Accuracy: 0.795
Accuracy without StopWords
Learning Rate: 0.0005 Epochs 2
Training Accuracy: 0.819 Test Accuracy: 0.793
Accuracy with StopWords
Learning Rate: 0.0005 Epochs 10
Training Accuracy: 0.847 Test Accuracy: 0.820
Accuracy without StopWords

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Learning Rate: 0.0005 Epochs 10
Training Accuracy: 0.844 Test Accuracy: 0.818
Accuracy with StopWords
Learning Rate: 0.0005 Epochs 50
Training Accuracy: 0.851 Test Accuracy: 0.824
Accuracy without StopWords
Learning Rate: 0.0005 Epochs 50
Training Accuracy: 0.862 Test Accuracy: 0.835
Accuracy with StopWords
Learning Rate: 0.0005 Epochs 200
Training Accuracy: 0.883 Test Accuracy: 0.856
Accuracy without StopWords
Learning Rate: 0.0005 Epochs 200
Training Accuracy: 0.870 Test Accuracy: 0.843
Accuracy with StopWords
Learning Rate: 0.1 Epochs 1
Training Accuracy: 0.754 Test Accuracy: 0.730
Accuracy without StopWords
Learning Rate: 0.1 Epochs 1
Training Accuracy: 0.778 Test Accuracy: 0.753
Accuracy with StopWords
Learning Rate: 0.1 Epochs 2
Training Accuracy: 0.821 Test Accuracy: 0.795
Accuracy without StopWords
Learning Rate: 0.1 Epochs 2
Training Accuracy: 0.825 Test Accuracy: 0.799
Accuracy with StopWords
Learning Rate: 0.1 Epochs 10
Training Accuracy: 0.870 Test Accuracy: 0.843
Accuracy without StopWords
Learning Rate: 0.1 Epochs 10
Training Accuracy: 0.849 Test Accuracy: 0.822
Accuracy with StopWords
Learning Rate: 0.1 Epochs 50
Training Accuracy: 0.795 Test Accuracy: 0.770
Accuracy without StopWords
Learning Rate: 0.1 Epochs 50
Training Accuracy: 0.937 Test Accuracy: 0.908
Accuracy with StopWords
Learning Rate: 0.1 Epochs 200
Training Accuracy: 0.894 Test Accuracy: 0.866
Accuracy without StopWords
Learning Rate: 0.1 Epochs 200
Training Accuracy: 0.952 Test Accuracy: 0.923
Accuracy with StopWords
Learning Rate: 0.5 Epochs 1
Training Accuracy: 0.752 Test Accuracy: 0.728
Accuracy without StopWords
Learning Rate: 0.5 Epochs 1

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Training Accuracy: 0.952 Test Accuracy: 0.923
Accuracy with StopWords
Learning Rate: 0.5 Epochs 2
Training Accuracy: 0.842 Test Accuracy: 0.816
Accuracy without StopWords
Learning Rate: 0.5 Epochs 2
Training Accuracy: 0.952 Test Accuracy: 0.923
Accuracy with StopWords
Learning Rate: 0.5 Epochs 10
Training Accuracy: 0.905 Test Accuracy: 0.877
Accuracy without StopWords
Learning Rate: 0.5 Epochs 10
Training Accuracy: 0.952 Test Accuracy: 0.923
Accuracy with StopWords
Learning Rate: 0.5 Epochs 50
Training Accuracy: 0.898 Test Accuracy: 0.870
Accuracy without StopWords
Learning Rate: 0.5 Epochs 50
Training Accuracy: 0.952 Test Accuracy: 0.923
Accuracy with StopWords
Learning Rate: 0.5 Epochs 200
Training Accuracy: 0.907 Test Accuracy: 0.879
Accuracy without StopWords
Learning Rate: 0.5 Epochs 200
Training Accuracy: 0.952 Test Accuracy: 0.923

Comparing accuracies

When iterations are too small, the model does not converge
and accuracy would be pretty low in the perceptron model.

NB \rightarrow all of data at a once

perceptron \rightarrow iteratively to find good network.

My accuracies in perceptron are lower than NB accuracies.

