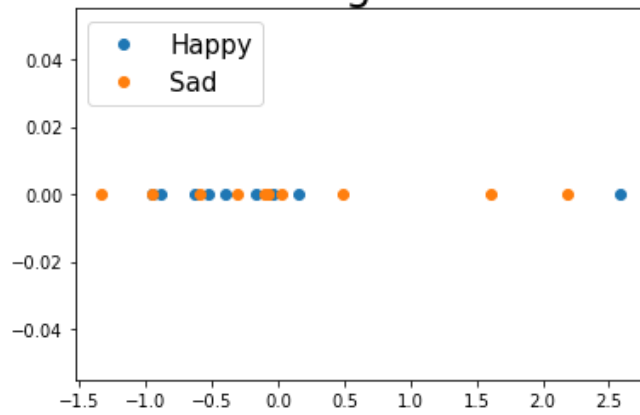


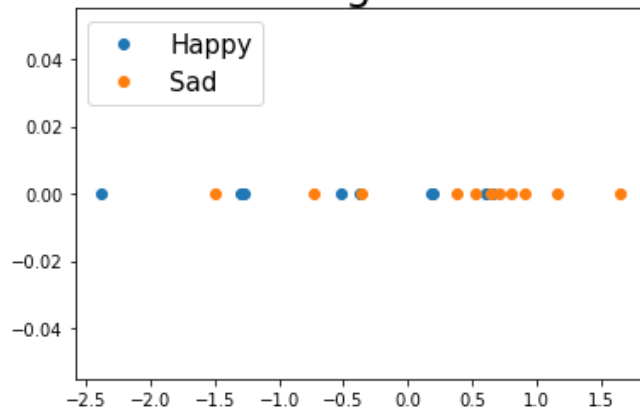
Data not well seperated for k = 1

LDA of Training Data at k = 1



Data not well seperated for k = 2

LDA of Training Data at k = 2



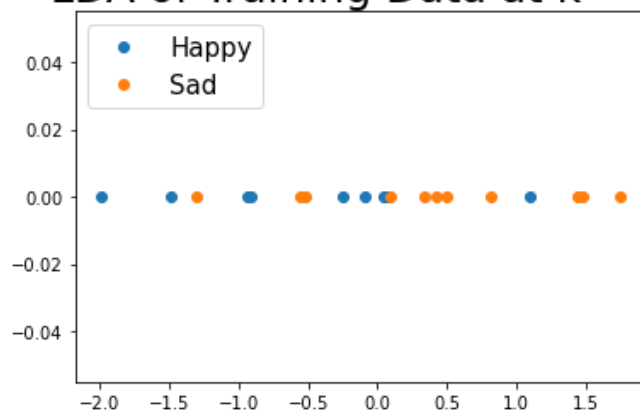
Data not well seperated for k = 3

LDA of Training Data at k = 3



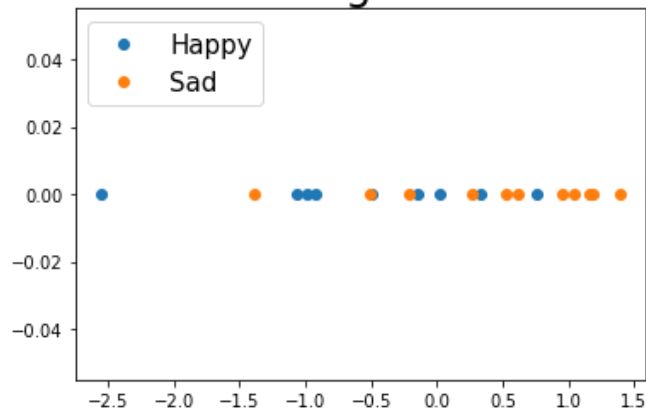
Data not well seperated for k = 4

LDA of Training Data at k = 4



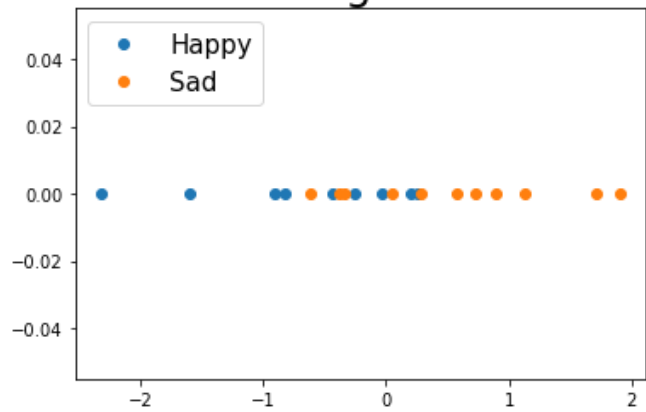
Data not well seperated for k = 5

LDA of Training Data at k = 5



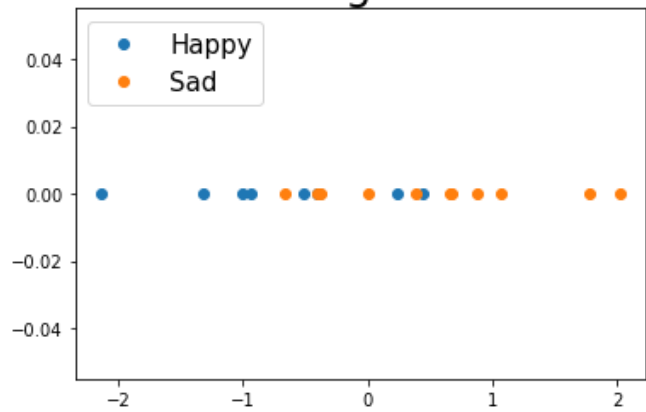
Data not well seperated for k = 6

LDA of Training Data at k = 6



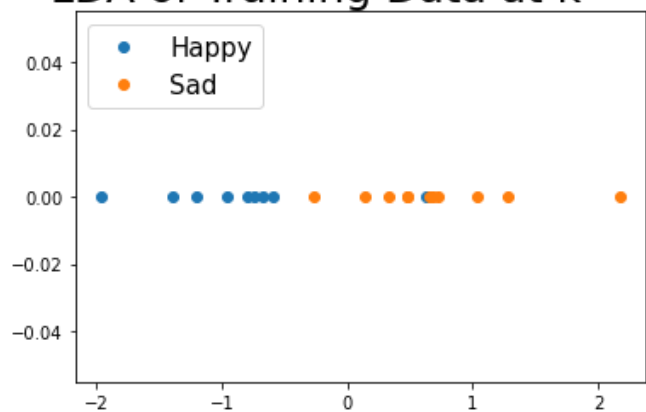
Data not well seperated for k = 7

LDA of Training Data at k = 7



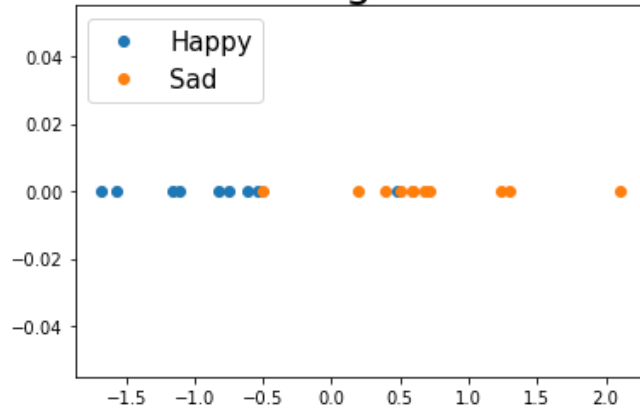
Data not well seperated for k = 8

LDA of Training Data at k = 8



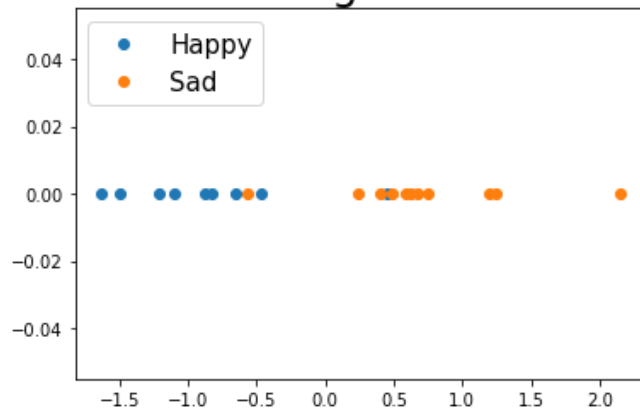
Data not well seperated for k = 9

LDA of Training Data at k = 9



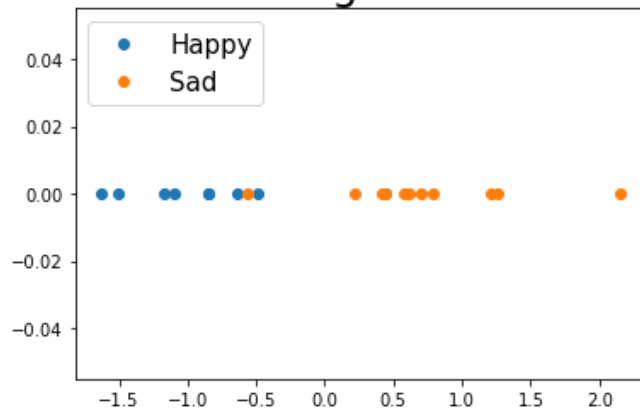
Data not well seperated for k = 10

LDA of Training Data at k = 10



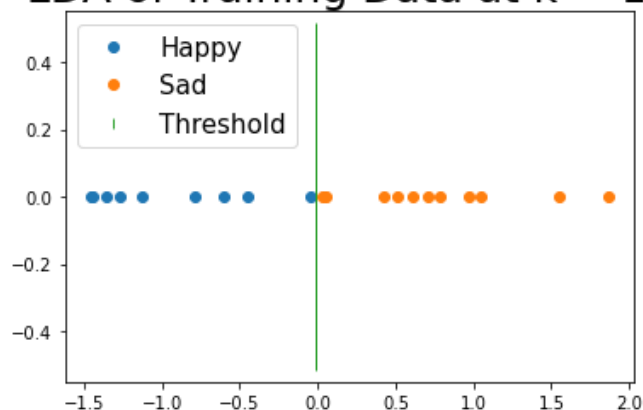
Data not well seperated for k = 11

LDA of Training Data at k = 11



Well seperated data at k = 12

LDA of Training Data at k = 12

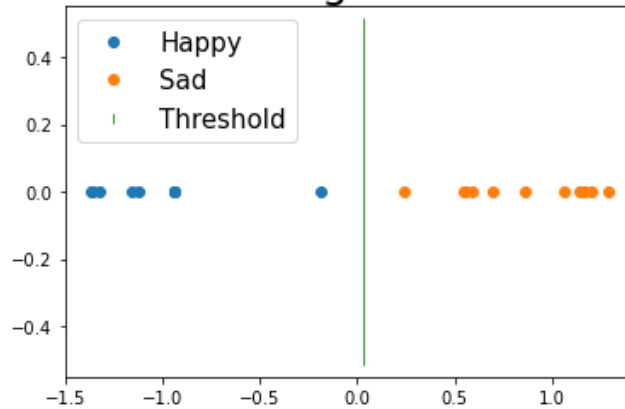


seperability = 1.7281663979349156

Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 0. 0. 0. 1. 0. 0. 1. 0. 1.]
threshold = -0.008410572009631224
Accuracy for k=12 is 100.0%

Well seperated data at k = 13

LDA of Training Data at k = 13

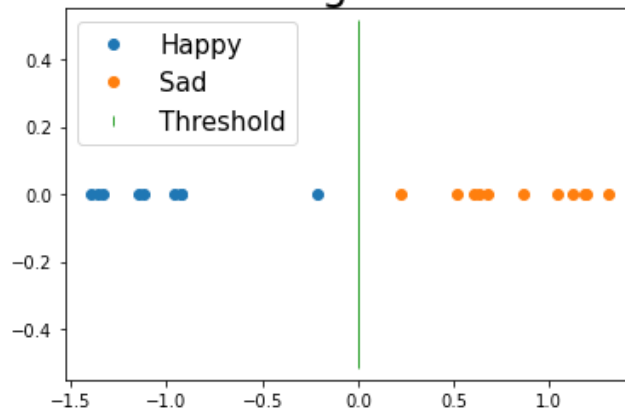


seperability = 1.8926186839890828

Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 1. 0. 0. 0. 0. 0. 1. 0. 1.]
threshold = 0.027455544716011387
Accuracy for k=13 is 80.0%

Well seperated data at k = 14

LDA of Training Data at k = 14

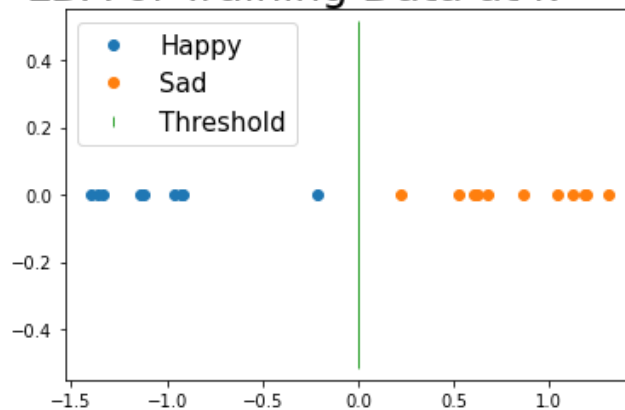


seperability = 1.893385120765254

Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 1. 0. 0. 1. 0. 0. 1. 0. 1.]
threshold = 0.005305477160939029
Accuracy for k=14 is 90.0%

Well seperated data at k = 15

LDA of Training Data at k = 15



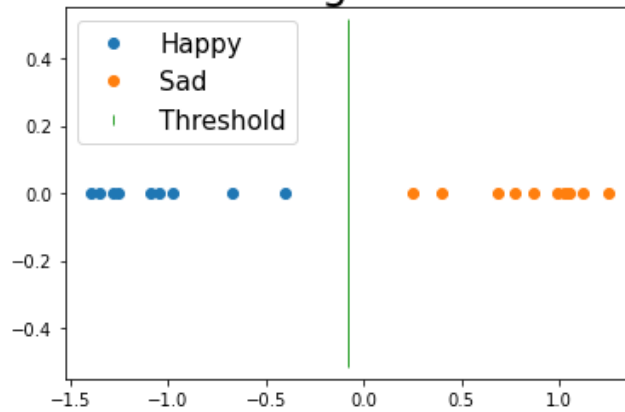
```

seperability = 1.89339289850176
Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 1. 0. 0. 1. 0. 0. 1. 0. 1.]
threshold = 0.005099790981005645
Accuracy for k=15 is 90.0%

```

Well seperated data at k = 16

LDA of Training Data at k = 16



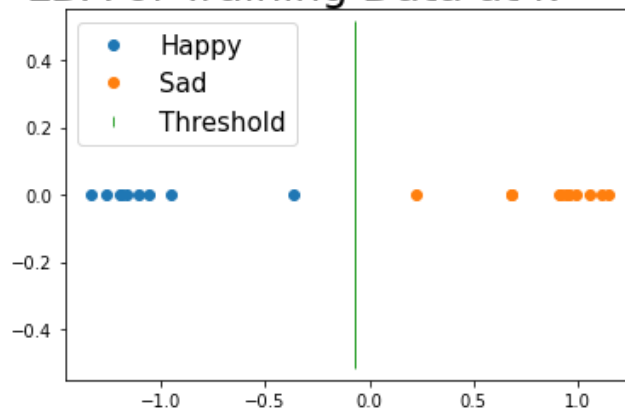
```

seperability = 1.915848813975702
Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 0. 0. 1. 1. 0. 0. 1. 0. 1.]
threshold = -0.07671631741865395
Accuracy for k=16 is 90.0%

```

Well seperated data at k = 17

LDA of Training Data at k = 17



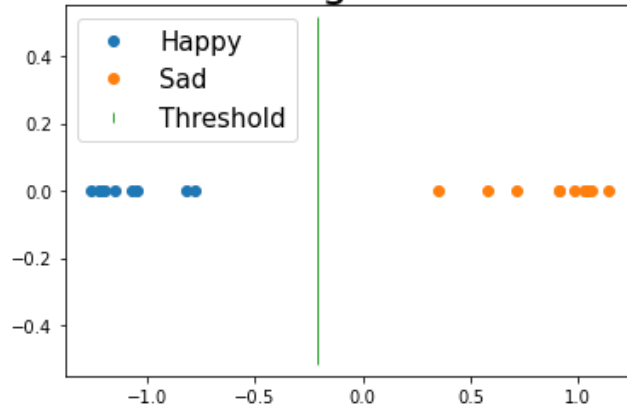
```

seperability = 1.9412566138322778
Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 0. 0. 1. 1. 0. 0. 1. 0. 1.]
threshold = -0.07127974035731899
Accuracy for k=17 is 90.0%

```

Well seperated data at k = 18

LDA of Training Data at k = 18



seperability = 1.9677446173207835

Actual Classes

[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]

Predicted Classes

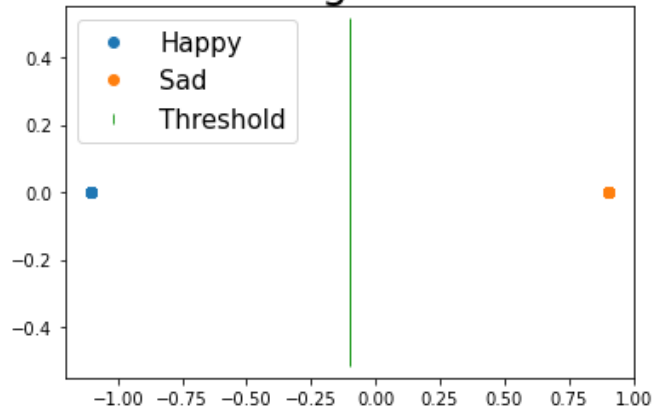
[1. 1. 0. 1. 1. 0. 0. 1. 0. 1.]

threshold = -0.21106361167320276

Accuracy for k=18 is 80.0%

Well seperated data at k = 19

LDA of Training Data at k = 19



seperability = 2.01007563051842

Actual Classes

[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]

Predicted Classes

[1. 0. 0. 1. 1. 0. 0. 1. 0. 1.]

threshold = -0.10050378152592115

Accuracy for k=19 is 90.0%
