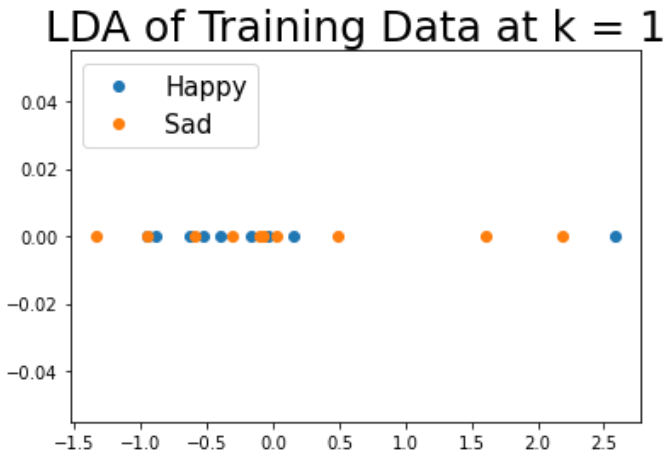
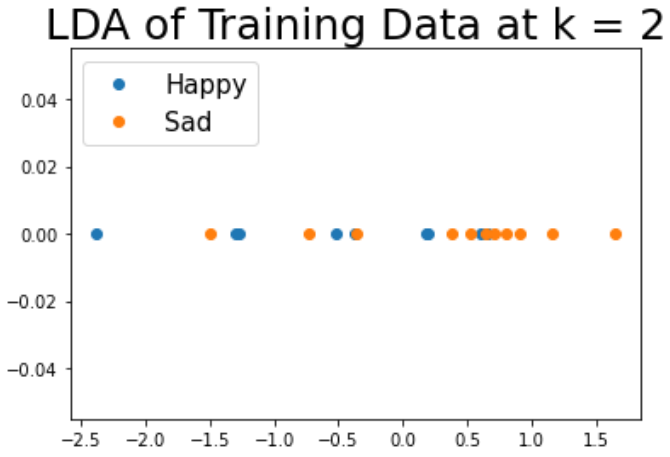
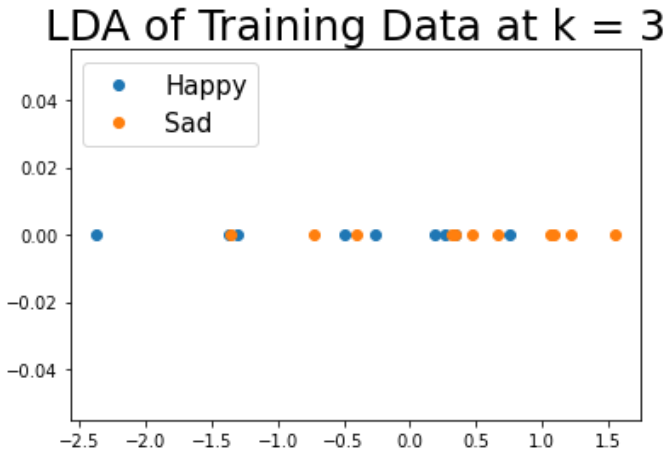
```
Data not well seperated for k = 1
```



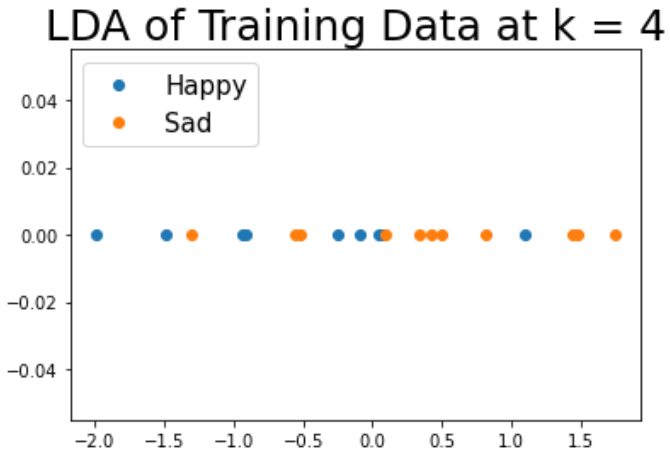

```
----------------------------------------
Data not well seperated for k = 2
```




```
----------------------------------------
Data not well seperated for k = 3
```

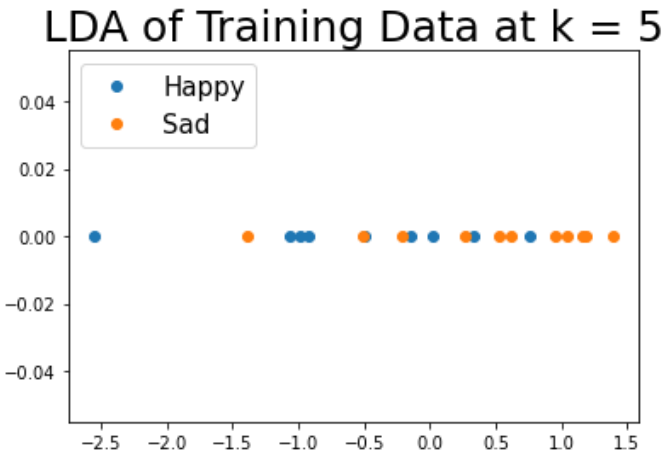



```
----------------------------------------
Data not well seperated for k = 4
```

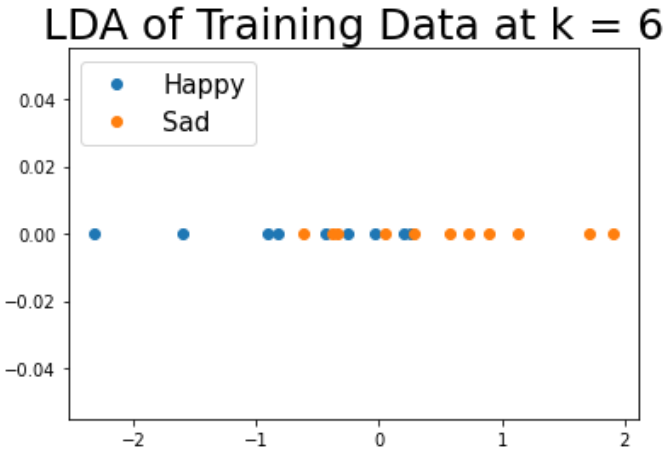



```
----------------------------------------
```

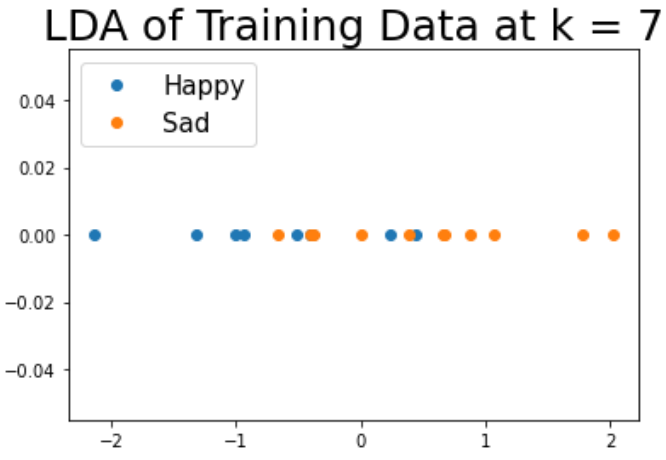
```
Data not well seperated for k = 5
```



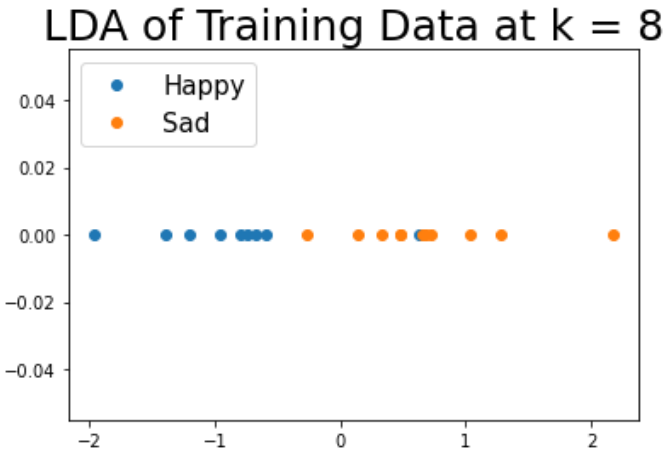

```
----------------------------------------
Data not well seperated for k = 6
```




```
----------------------------------------
Data not well seperated for k = 7
```

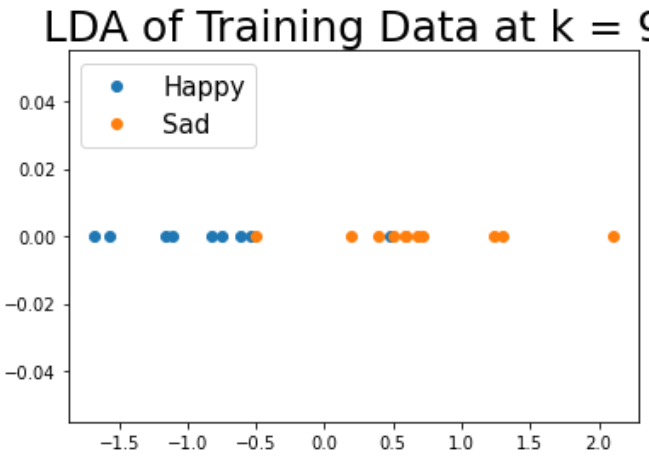



```
----------------------------------------
Data not well seperated for k = 8
```

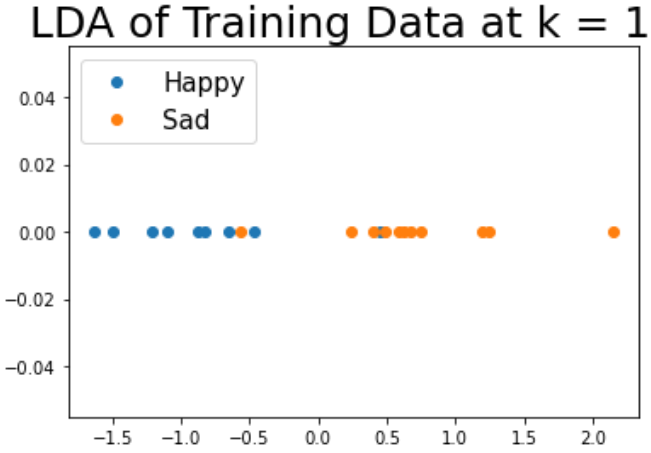



```
----------------------------------------
```

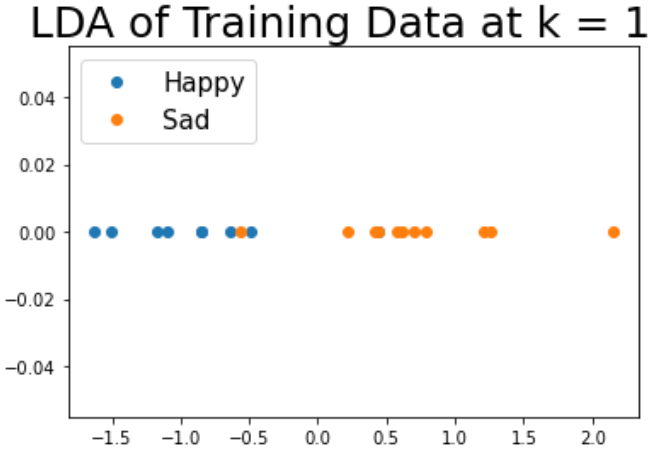
```
Data not well seperated for k = 9
```



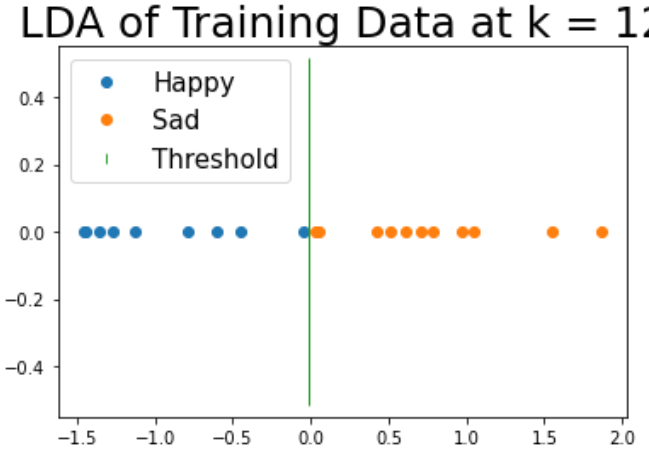

```
----------------------------------------
Data not well seperated for k = 10
```




```
----------------------------------------
Data not well seperated for k = 11
```

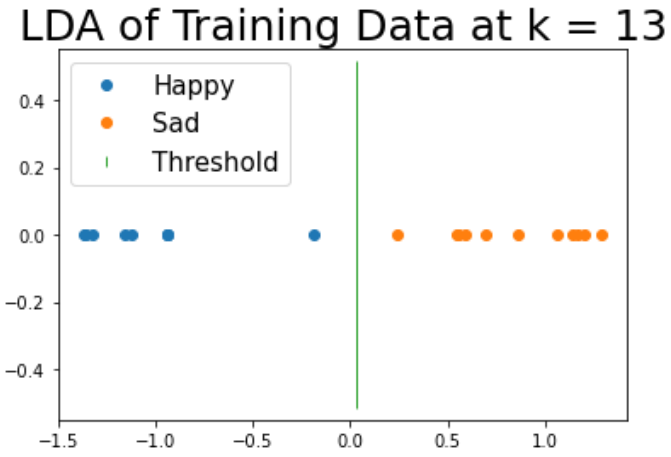



```
----------------------------------------
Well seperated data at k = 12
```

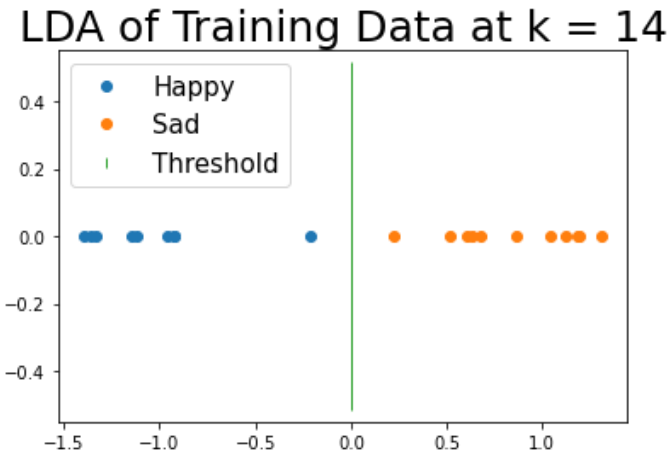



```
seperability = 1.7281663979349156
```

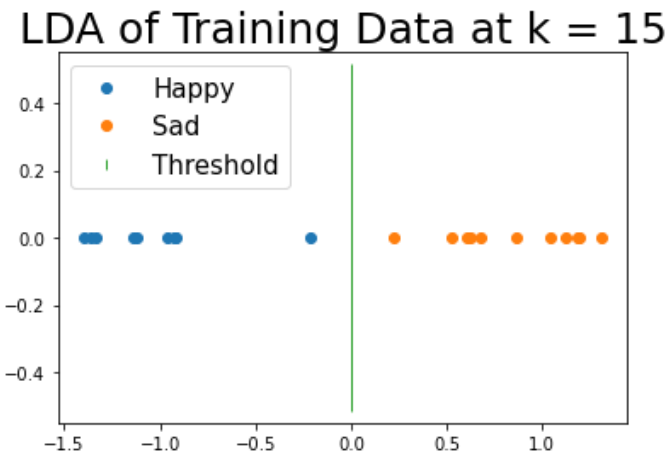
```
Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 0. 0. 0. 1. 0. 0. 1. 0. 1.]
threshold = -0.008410572009631224
Accuracy for k=12 is 100.0%
----------------------------------------
Well seperated data at k = 13
```



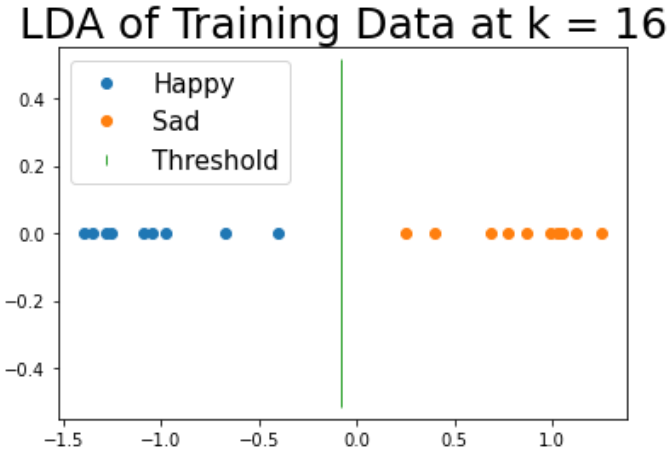

```
seperability = 1.8926186839890828
Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 1. 0. 0. 0. 0. 0. 1. 0. 1.]
threshold = 0.027455544716011387
Accuracy for k=13 is 80.0%
----------------------------------------
Well seperated data at k = 14
```



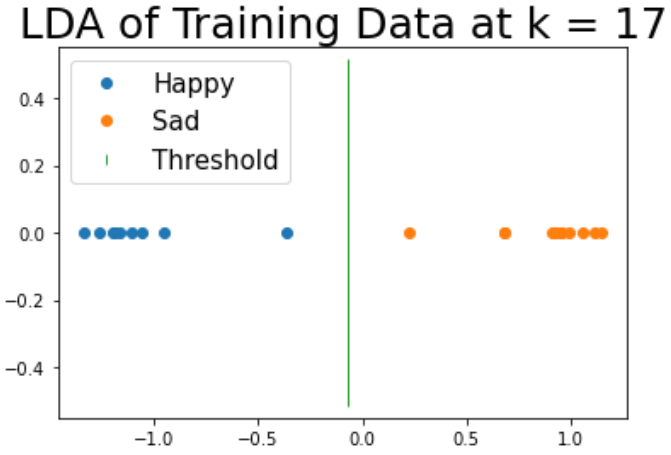

```
seperability = 1.893385120765254
Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 1. 0. 0. 1. 0. 0. 1. 0. 1.]
threshold = 0.005305477160939029
Accuracy for k=14 is 90.0%
----------------------------------------
Well seperated data at k = 15
```



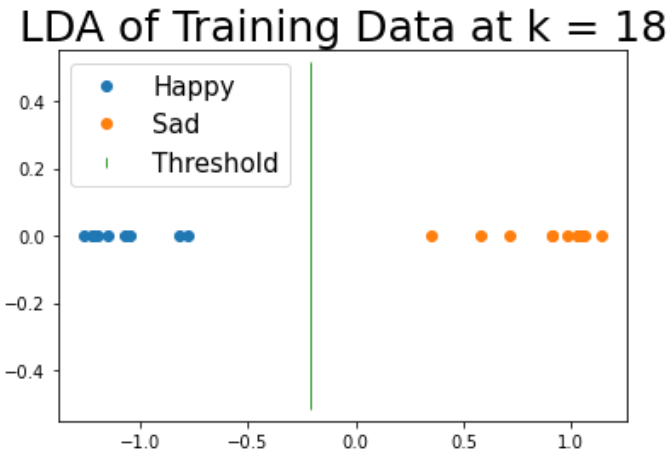
```
seperability = 1.89339289850176
Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 1. 0. 0. 1. 0. 0. 1. 0. 1.]
threshold = 0.005099790981005645
Accuracy for k=15 is 90.0%
----------------------------------------
Well seperated data at k = 16
```



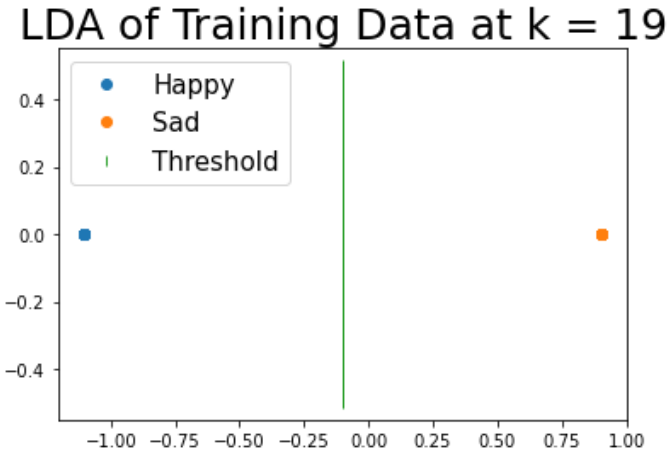

```
seperability = 1.915848813975702
Actual Classes
[1, 0, 0, 0, 1, 0, 0, 1, 0, 1]
Predicted Classes
[1. 0. 0. 1. 1. 0. 0. 1. 0. 1.]
threshold = -0.07671631741865395
Accuracy for k=16 is 90.0%
----------------------------------------
Well seperated data at k = 17
```




```
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
```




```
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
```




```
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%
----------------------------------------
```