

DS 675 Exam review sheet

1. Dot products, Euclidean distance, L2 norm
2. Linear vs non-linear data
3. Least squares objective
4. Gradient descent algorithm for least squares objective
5. Concept of margin of classifier
6. Hinge (SVM) objective
7. Effect of outliers on least squares vs SVM
8. Multiclass classification
9. One hot encoding for categorical variables
10. Cross validation, balanced accuracy
11. Single layer neural network with least squares objective
12. Neural network activations
13. Back propagation algorithm
14. Logistic regression
15. Feature selection
16. Clustering