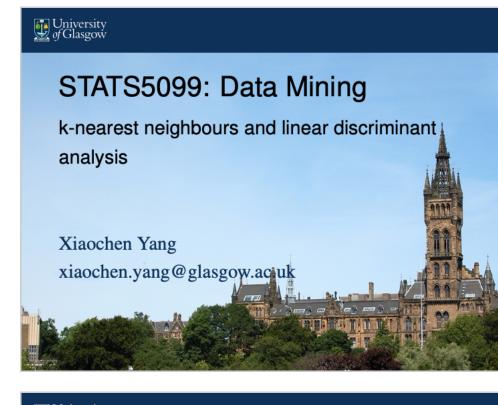
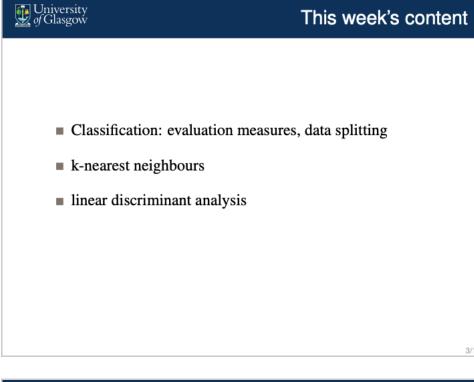
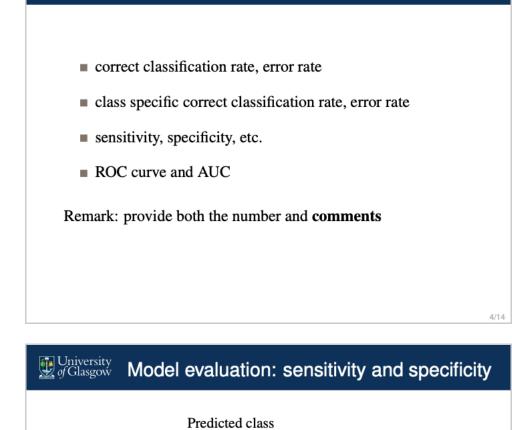


TutorialSli de3



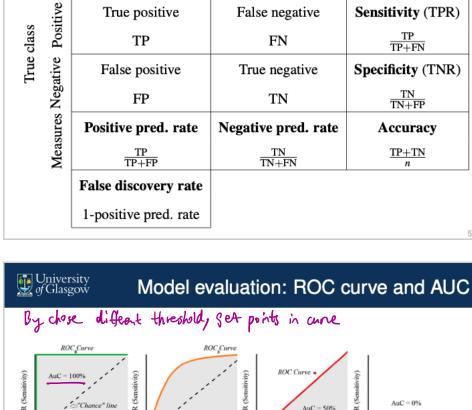


Model evaluation: scalar measures

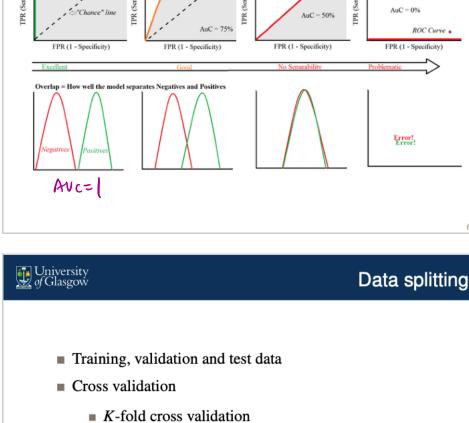


Negative

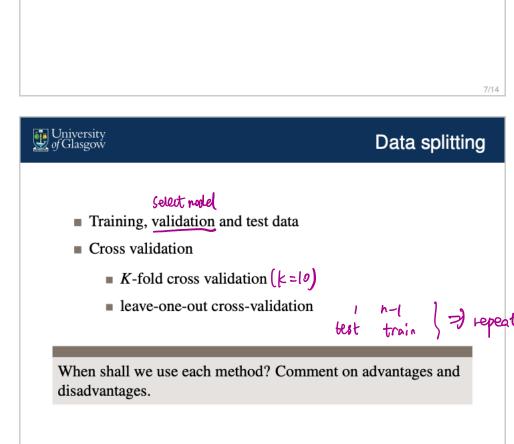
Measures

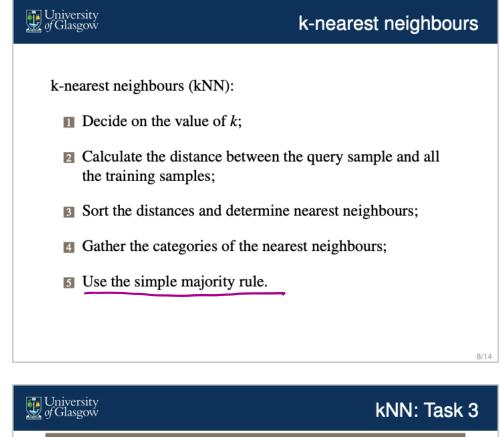


Positive



leave-one-out cross-validation





Classify a new paper tissue with acid durability of 3 seconds

Strength

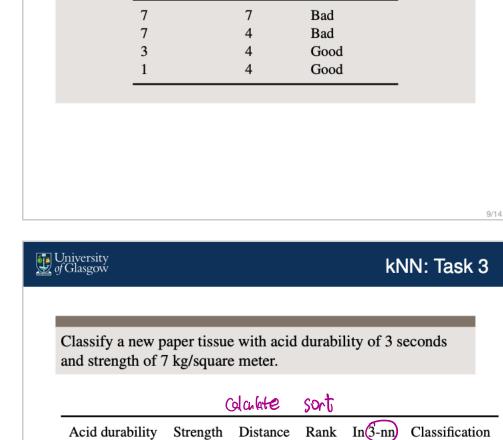
Classification

and strength of 7 kg/square meter.

7

7

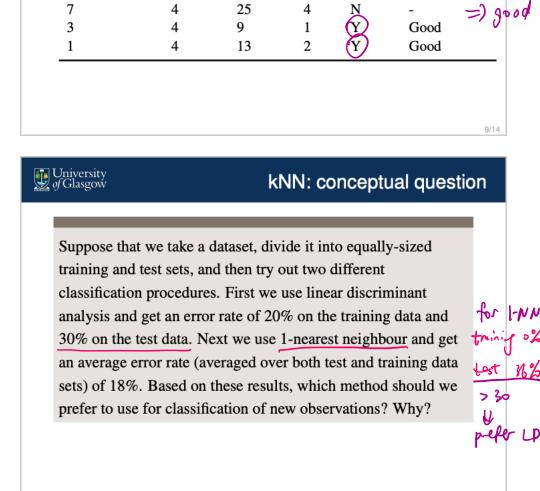
Acid durability



16

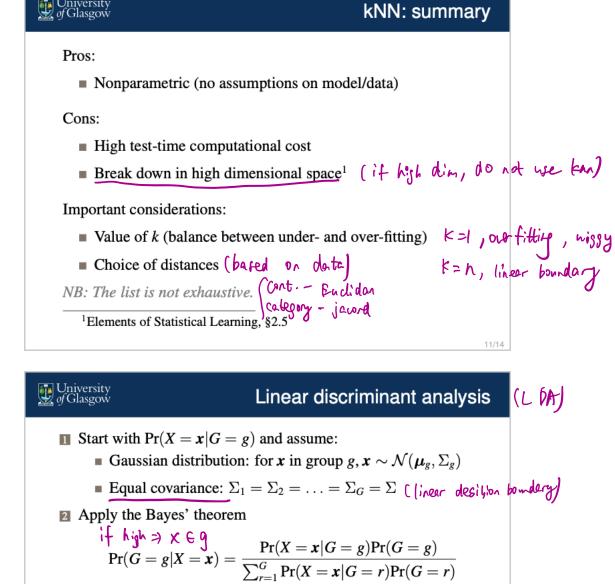
25

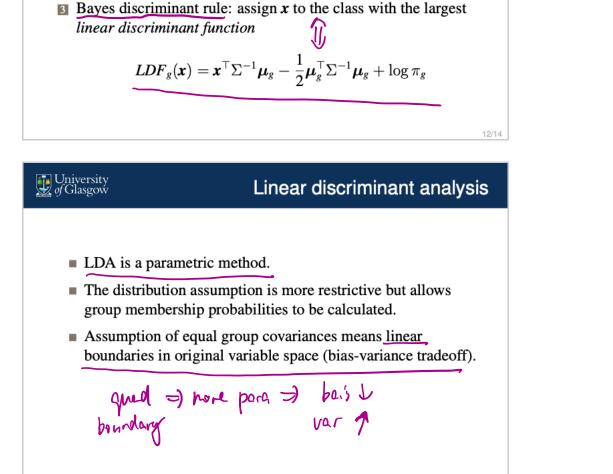
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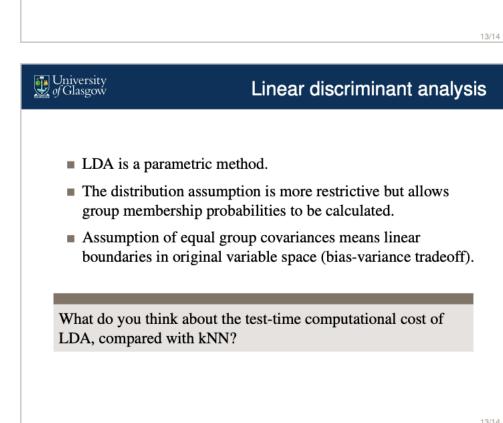


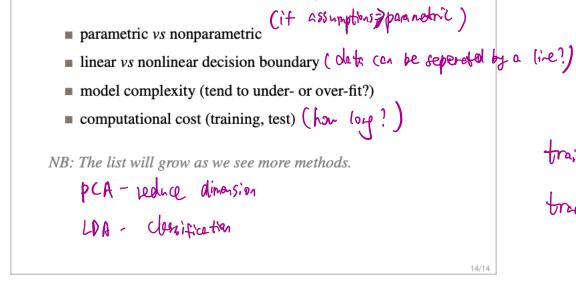
3

Bad









advantages and disadvantages?

LDA, compared with kNN?

*

Summary: Considerations when choosing methods

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■ Data splitting: when shall we use each method? what are their ■ What do you think about the test-time computational cost of

train, test au (on =) underfitting training high, test law =) overfitting

- Apply cross validation to select the optimal number of principal components for PC regression (Week 2, Example 11).
- Perform kNN and LDA on German dataset. In particular, ■ Shall we use all variables? Why?

■ For kNN, shall we use the Euclidean distance on original variables?

■ For LDA, how to interpret the linear discriminant functions? ■ Which evaluation criteria shall we use?