Lesson 08 Quiz

Started: Feb 25 at 11:42am

Quiz Instructions

Predictive Analytics - Intro to Supervised Learning

This quiz refers to **Predictive Analytics**.

You are allowed 2 attempts; your highest score will be kept. Correct answers will be shown after the 2nd attempt.

Question 1 — 1 pts

Run the demo script L08-PredictiveModels.py and observe how the running times of the different models differ.

Why do you think the kNN models lag compared to the models prior to them?

- ○ The distance calculations are time-consuming.
- ○ kNN is generally slow.
- ○ The distance metric used is slow.
- ◉ The number of neighbors (k) was very high.

Question 2 — 1 pts

Why is the SVM model so time-consuming, particularly on the regression problem?

- ○ The model was set up properly.
- ○ The kernel used is very slow.

- ○ The data was not properly normalized.
- ◉ SVMs are more computationally expensive in general.

Question 3 — 1 pts

Would it make sense to apply polynomial features of degree 5 to a data set like the one used in the demo?

- ○ No, as polynomial features beyond degree 2 are generally bad.
- ○ Yes, as it would provide much better features.
- ○ Yes, as it would yield better results.
- ◉ No, because the feature set would explode, due to the very large number of combinations that would arise, slowing down the model considerably.

Question 4 — 1 pts

Why does the random forest model yield somewhat different results when you train it on the same Iris data set?

- ○ The dataset has too few data points.
- ○ Random forest is a stochastic model.
- ◉ The dataset has too few features.
- ○ No-one knows for sure.

Question 5 — 1 pts

How does a feature differ from a variable?

- ○ None of the reasons shown
- ○ A feature is normalized
- ○ A feature doesn't have any missing values, usually
- ○ A feature is more information-rich
- ◉ All of the reasons shown

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