

Knowledge check

3 minutes

Check your knowledge

1. Why is linear regression a popular model?

- ☐ It's fast to calculate and easily interpreted
- ☐ It's easy to extrapolate from and the fitting procedure doesn't require 'tuning' to find an optimum solution

☒ Both options are correct



Correct.

2. What is the difference between multiple and simple regression?

- ☐ Simple regression uses special mathematics to speed up analysis
- ☐ Multiple regression predicts multiple labels, but simple regression doesn't

☒ Multiple regression accepts multiple features, but simple regression doesn't



Correct.

3. What are the main strengths and weaknesses of polynomial regression, compared to simple linear regression?

- ☐ Polynomial regression is a more popular method than linear regression, but it always needs to be fitted iteratively

☒ Polynomial regression can explain non-linear relationships, but it often makes extreme predictions when extrapolated



Correct.

- ☐ Polynomial regression can be extrapolated, unlike simple linear regression, but it can take a long time to compute

Module complete:

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