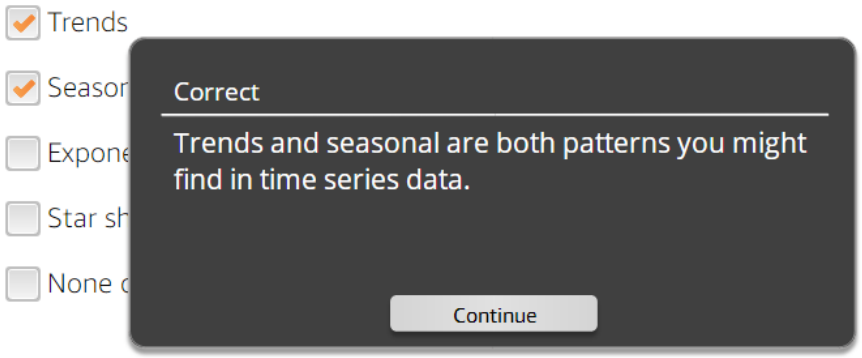
AMLFv1EN-6778

Module 4 Knowledge Check

Which patterns are common in time series data? (Select TWO.)



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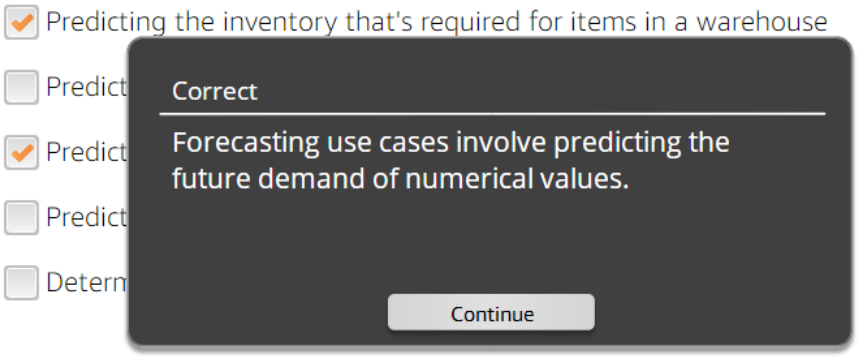
Number correct: 1 out of 1

Which use cases apply to forecasting? (Select TWO.)



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Number correct: 2 out of 2

Which datasets could be used as a time series dataset? (Select TWO.)

- [x] Sales data that contains items, purchase dates, and quantities
- [x] Web lo
- [ ] Chemi
- [ ] Membe donate (PII) and a
- [ ] Results

Correct

Datasets with a timestamp element -- or time that can be inferred -- can be used as time series data.

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Number correct: 3 out of 3

You have a dataset of temperature readings from a weather station. Temperature readings are logged every 5 minutes. You notice that there are several missing values each day. Which approach could you take? (Select TWO.)

- [ ] Replac
- [x] Forwar
- [x] Backw
- [ ] Use th ues
- [ ] Remove the records that have the missing data

Correct

In this example, using forward fill or backward fill are both methods for filling in the missing data.

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Number correct: 4 out of 4

Which scenarios are examples of appropriate downsampling? (Select TWO.)

- [x] Using m… ourly value
- [ ] Using m… daily total
- [x] Using s… aily total
- [ ] Using s… urly value

Correct

Using mean on minute-by-minute data to determine an hourly value is suitable for temperature data. Using sum to determine the daily total is the best way to downsample.

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Number correct: 5 out of 5

What are examples of seasonality that you might observe in time series data? (Select TWO.)

- [x] Quarterly, yearly
- [x] Spring, summer, fall, winter
- [ ] Every two years
- [ ] One time sales events
- [ ] Hourly

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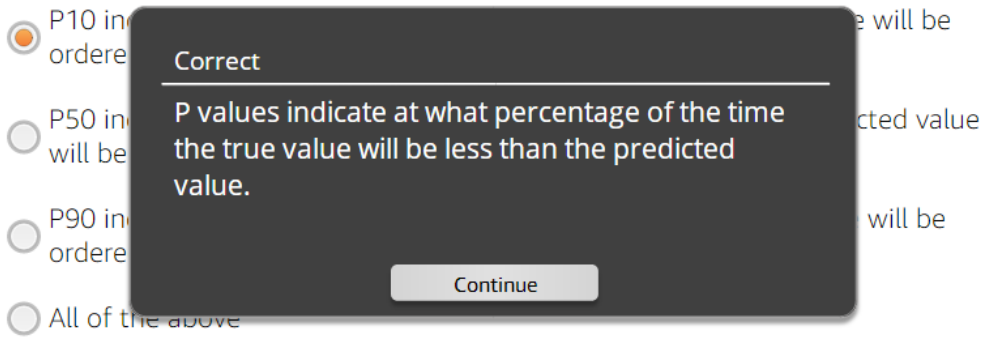
Number correct: 5 out of 5

Amazon Forecast generates predictions for P10, P50, and P90. If the forecast predicts shoe sales, what do the P10, P50, and P90 tell you?



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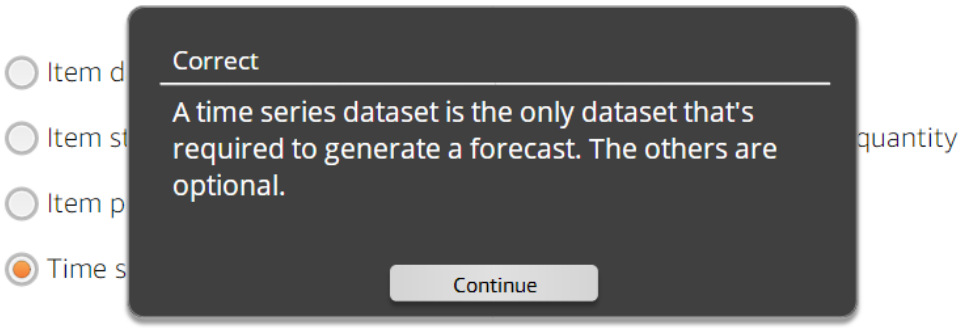
Number correct: 7 out of 7

Which datasets are required for generating a retail forecast with Amazon Forecast?



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Number correct: 8 out of 8

You are going to use a dataset to generate a forecast. Which steps would you take to use the data that's available to produce the best model? (Select THREE.)

- [ ] Use th… testing… …ng and
- [x] Use pa… …taset
- [x] Use th… …st window
- [x] Use th… …al values
- [ ] All of t…

Correct

Splitting the data by time, using a backtest window, and comparing the tested dataset predictions with actual values are all valid ways to produce a model.

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Number correct: 9 out of 9