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TO PASS 80% or higher

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GRADE
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Algorithms 79



Machine Learning 311



Probability & Statistics 356



General Statistics 369



Theoretical Computer Science 76



Week 1 Quiz

LATEST SUBMISSION GRADE
100%

1. What is an example of a Univariate time series?

1 / 1 point

- ☐ Fashion items
- ☐ Baseball scores
- ☒ Hour by hour temperature
- ☐ Hour by hour weather

✓ Correct

2. What is an example of a Multivariate time series?

1 / 1 point

- ☐ Hour by hour temperature
- ☐ Fashion items
- ☒ Hour by hour weather
- ☐ Baseball scores

✓ Correct

3. What is imputed data?

1 / 1 point

- ☐ A good prediction of future data
- ☐ A bad prediction of future data
- ☐ Data that has been withheld for various reasons
- ☒ A projection of unknown (usually past or missing) data

✓ Correct

4. A sound wave is a good example of time series data

1 / 1 point

☒ True

☐ False

✓ Correct

5. What is Seasonality?

1 / 1 point

☐ Weather data

☐ Data that is only available at certain times of the year

☒ A regular change in shape of the data

☐ Data aligning to the 4 seasons of the calendar

✓ Correct

6. What is a trend?

1 / 1 point

☐ An overall consistent flat direction for data

☐ An overall consistent downward direction for data

☒ An overall direction for data regardless of direction

☐ An overall consistent upward direction for data

✓ Correct

7. In the context of time series, what is noise?

1 / 1 point

☐ Data that doesn't have a trend

☐ Sound waves forming a time series

☒ Unpredictable changes in time series data

☐ Data that doesn't have seasonality

✓ Correct

8. What is autocorrelation?

1 / 1 point

☐ Data that doesn't have noise

☒ Data that follows a predictable shape, even if the scale is different

☐ Data that automatically lines up seasonally

☐ Data that automatically lines up in trends

✓ Correct

9. What is a non-stationary time series?

1 / 1 point

☐ One that has a constructive event forming trend and seasonality

☐ One that is consistent across all seasons

☒ One that has a disruptive event breaking trend and seasonality

☐ One that moves seasonally

✓ Correct