Week 1 Quiz

TOTAL POINTS 9

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

   ◯ Fashion items

   ⦿ Hour by hour temperature

   ◯ Hour by hour weather

   ◯ Baseball scores

2. **What is an example of a Multivariate time series?**   `1 point`

   ◯ Hour by hour weather

   ◯ Hour by hour temperature

   ⦿ Baseball scores

   ◯ Fashion items

3. **What is imputed data?**   `1 point`

   ◯ Data that has been withheld for various reasons

   ◯ A bad prediction of future data

   ⦿ A projection of unknown (usually past or missing) data

   ◯ A good prediction of future data

4. **A sound wave is a good example of time series data**   `1 point`

   ⦿ True

   ◯ False

5. **What is Seasonality?**   `1 point`

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

   ⦿ A regular change in shape of the data
   ◯ Weather data

   ◯ Data aligning to the 4 seasons of the calendar

6. **What is a trend?**   `1 point`

   ⦿ An overall direction for data regardless of direction

   ◯ An overall consistent flat direction for data

   ◯ An overall consistent downward direction for data

   ◯ An overall consistent upward direction for data

7. **In the context of time series, what is noise?**   `1 point`

   ◯ Data that doesn't have seasonality

   ◯ Sound waves forming a time series

○ Data that doesn't have a trend

◉ Unpredictable changes in time series data

8. **What is autocorrelation?** 1 point

○ Data that automatically lines up in trends

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

○ Data that automatically lines up seasonally

○ Data that doesn't have noise

9. **What is a non-stationary time series?** 1 point

○ One that has a constructive event forming trend and seasonality

◉ One that has a disruptive event breaking trend and seasonality

○ One that is consistent across all seasons

○ One that moves seasonally

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◉ Unpredictable changes in time series data