Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

Different Data Types

Total points 3

1. Visualizing an audio signal in the time domain usually reveals very little information on its spectral content. Which graphical representation displays the amplitude changes for each frequency as a function of time? **1 / 1 point**

- librosa
- Feature normalization
- Short-Time Fourier Transform.
- Spectrogram.

Correct
Spot on! Check this page for more information on spectrograms.

2. What would be a striking caveat or shortcoming of interpreting a video just as a series of images? **1 / 1 point**

- Hindering classifier accuracy.
- Losing the semantic context coming from the sequence of events.
- Considering that all subsequent frames are correlated.
- Unnecessarily increasing the dimensionality of the dataset.

Correct
Correct! Videos are time series as well and thus the ordering of events matter a great deal.

3. In the analysis of the weather time series data set you saw that the samples were acquired at a rate of 6 samples per hour. You also know that weather changes typically occur on a much slower time scale. What is a valid sampling strategy to make predictions into the future for this specific case? **1 / 1 point**

- Upsampling by interpolation.
- Windowing and omitting samples.
- Omitting samples.
- Use one sample at a time to make predictions.

Correct
Right on! Taking a finite window of data plus downsampling is the way to go for slow time varying signals.