Congratulations! You passed!

Grade received 100% To pass 80% or higher

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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 1/1 point amplitude changes for each frequency as a function of time? Spectrogram. Olibrosa Feature normalization O Short-Time Fourier Transform. **⊘** Correct Spot on! Check this <u>page</u> 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. O Unnecessarily increasing the dimensionality of the dataset. Onsidering that all subsequent frames are correlated. Losing the semantic context coming from the sequence of events. **⊘** 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 1/1 point 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? Omitting samples. O Use one sample at a time to make predictions. Windowing and omitting samples. O Upsampling by interpolation.

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