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 amplitude changes for each frequency as a function of time?	1/1 point
	Feature normalization	
	Spectrogram.	
	Short-Time Fourier Transform.	
	O librosa	
	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
	Losing the semantic context coming from the sequence of events.	
	Considering that all subsequent frames are correlated.	
	Hindering classifier accuracy.	
	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
	Use one sample at a time to make predictions.	
	O Upsampling by interpolation.	
	Windowing and omitting samples.	
	Omitting samples.	
	Correct Right on! Taking a finite window of data plus downsampling is the way to go for slow time varying signals.	