

Can AI and Machine Learning Scientists Ignore Healthcare Experts?

by

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Abstract: With the advent of new technologies in machine learning and AI, computer scientists often do not respect the data sentiments as they are trying to lowering down the learning error-rate. Conventionally speaking, from machine learning perspective, lowering down the learning error-rates yields higher recognition rate. However, if we consider expert-based problems, such as healthcare, it is wise to follow and/or replicate expert-based procedure; but procedural solution is out of fashion. In this talk, we will be having a project: lung abnormality screening using image data (chest X-ray) in non-hospital settings. From this talk, we will be discussing the following: a) do we really understand how the experts make decisions?; and b) is it required to replicate the experts' procedures to make decisions? If not, can we be that much ignorant?