



ELLIS talk

# ELLIS Talk: Implicit bias in machine learning

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Most practical algorithms for supervised machine learning boil down to optimizing the average performance over a training dataset. However, it is increasingly recognized that although the optimization objective is the same, the manner in which it is optimized plays a decisive role in the properties of the resulting predictor. For example, when training large neural networks, there are generally many weight combinations that will perfectly fit the training data. However, gradient-based training methods somehow tend to reach those which, for example, do not overfit; are brittle to adversarially crafted examples; or have other interesting properties. In this talk, I'll describe several recent theoretical and empirical results related to this question.

**Tuesday, October 31, 2023 02:00pm - 03:00pm**

Central Bldg / O1 / Mondi 2a (I01.O1.008)



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