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LXY-信息专题研究课论文阅读

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arXiv:1406.2661v1 [stat.ML]

The premise of deep learning is to discover rich, hierarchical models (2) that represent probability distributions over the kinds of data encountered in artificial intelligence applications, such as natural images, audio waveforms containing speech, and symbols in natural language captions. So far, the most striking successes in deep learning have involved **discriminative models**, usually those that map a **high-dimensional, rich sensory input** to a class label (14, 22). These striking successes have primarily been based on the backpropagation and dropout algorithms, using piecewise linear units (19, 9, 10) which have a particularly well-behaved gradient. Deep generative models have had less **success**, due to the difficulty of approximating many intractable probabilistic computations that arise in maximum likelihood estimation and related strategies, and due to difficulty of leveraging the benefits of piecewise linear units in the generative context. We propose a new generative model estimation procedure that sidesteps these difficulties.¹

In the proposed **adversarial nets** framework, the generative model is pitted against an adversary, a **discriminative model** that learns to determine whether a sample is from the model distribution or the data distribution. The generative model can be thought of as analogous to a team of counterfeiters.

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