Deep Learning@Coursera

week2 outro

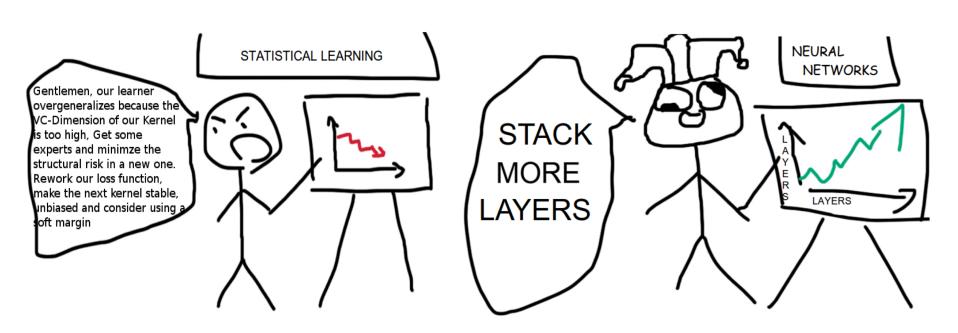
Deep Learning is...







Don't expect deep learning to solve all your problems for free. For it won't.



https://i.warosu.org/data/sci/img/0073/62/1435656449422.png

- No core theory
 - Relies on intuitive reasoning

- No core theory
 - Relies on intuitive reasoning
- Needs tons of data
 - You need either large dataset or heavy wizardry

- No core theory
 - Relies on intuitive reasoning
- Needs tons of data
 - You need either large dataset or heavy wizardry
- Computationally heavy
 - Running on mobiles/embedded is a challenge

- No core theory
 - Relies on intuitive reasoning
- Needs tons of data
 - You need either large dataset or heavy wizardry
- Computationally heavy
 - Running on mobiles/embedded is a challenge
- Pathologically overhyped
 - People expect of it to make wonders

in which you can hint your model on what you want it to learn

Say, you train classifier on two sets of features

Raw features

High-level features

Target

Say, you train classifier on two sets of features

Raw features

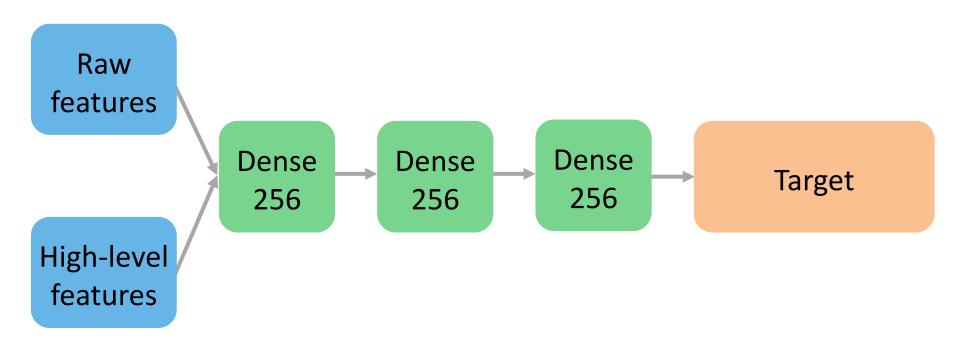
Car photo (image pixels)

High-level features

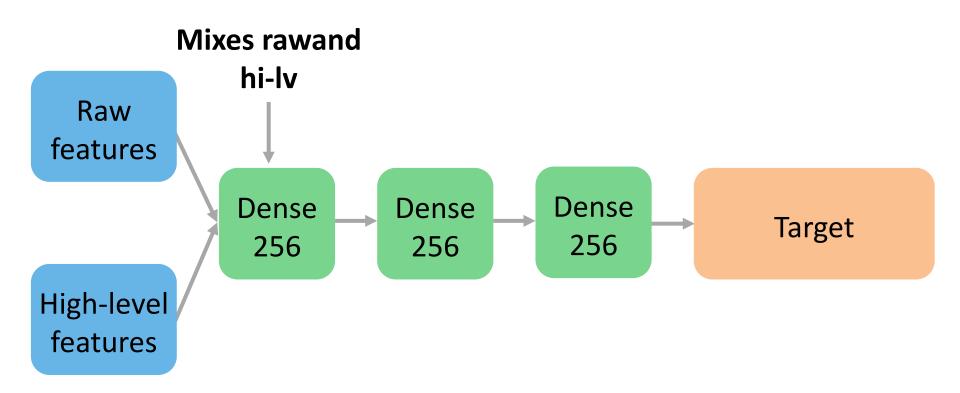
Car brand, model, age, blemishes Car price

Target

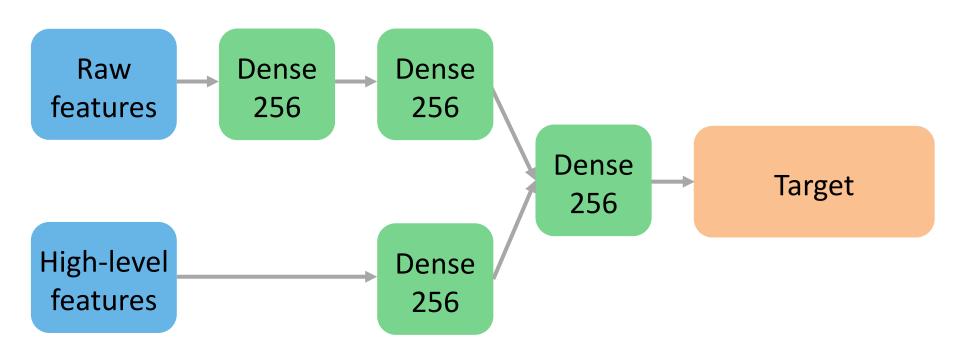
Naive approach



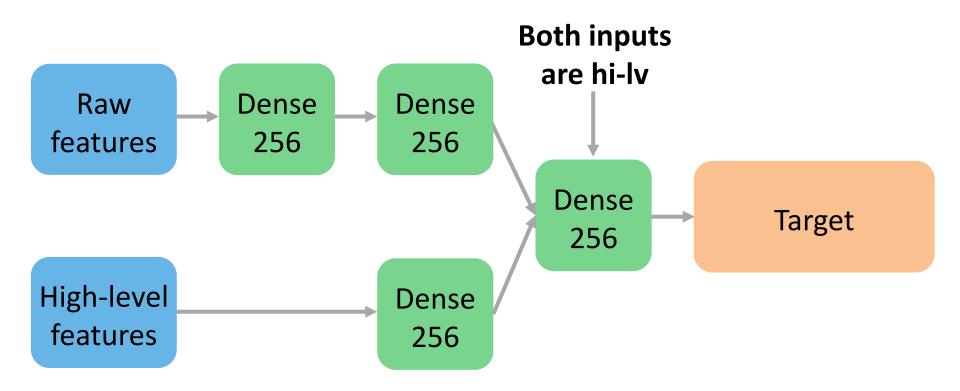
Naive approach



Less naïve approach



Less naïve approach



"Image features should be less important" if that's what you want to say

