

Deep Learning@Coursera

week2 outro

Deep Learning is...



Yandex
Data Factory

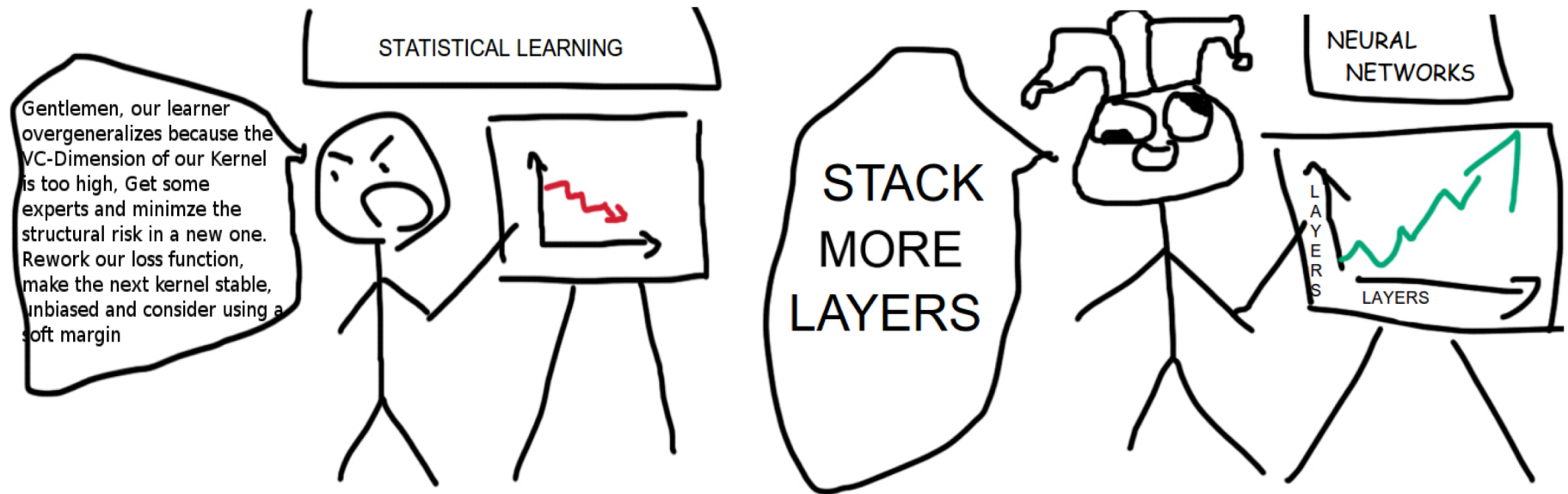
LAMBDA 



**British Hedgehog
Preservation Society**

Not magic!

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>

Not magic

Book of grudges

- 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

Deep learning is a language

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

Deep learning is a language

Say, you train classifier on two sets of features

Raw
features

Car photo
(image pixels)

High-level
features

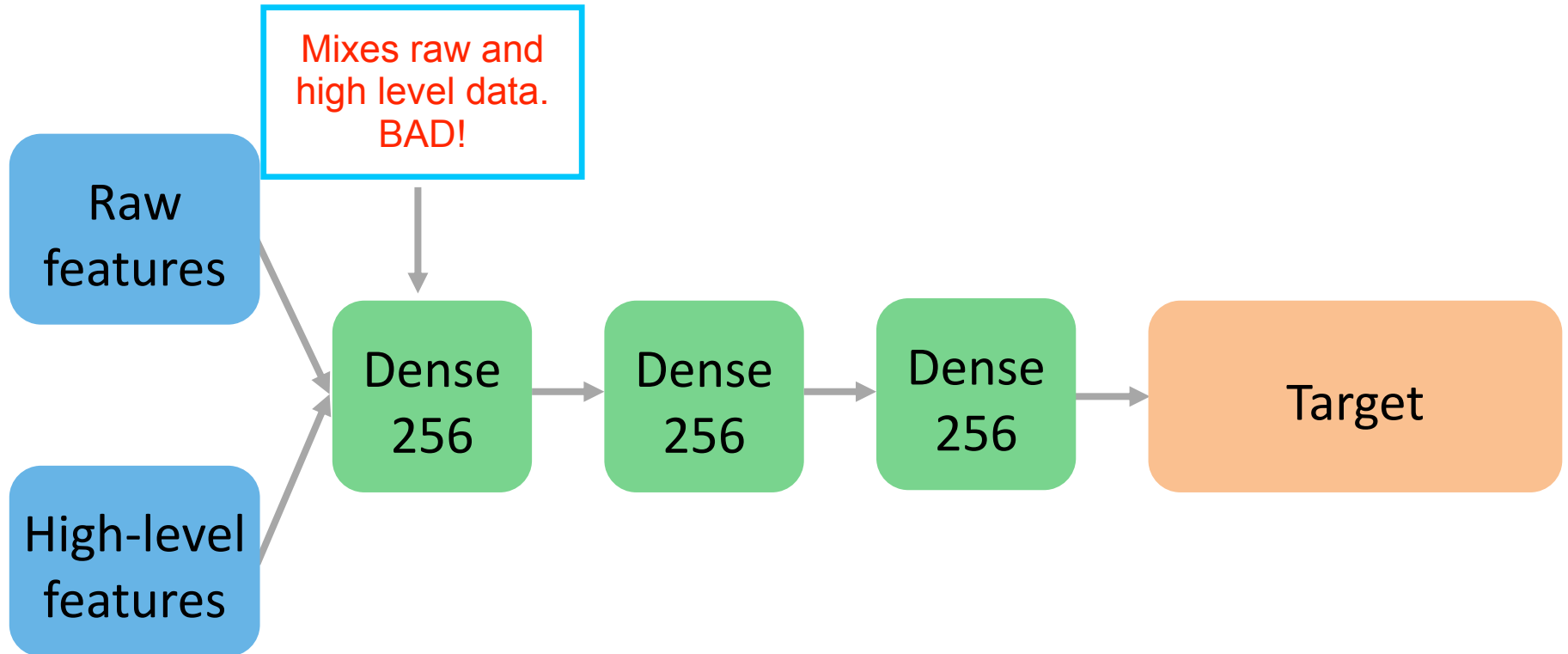
Car brand,
model, age,
blemishes

Car
price

Target

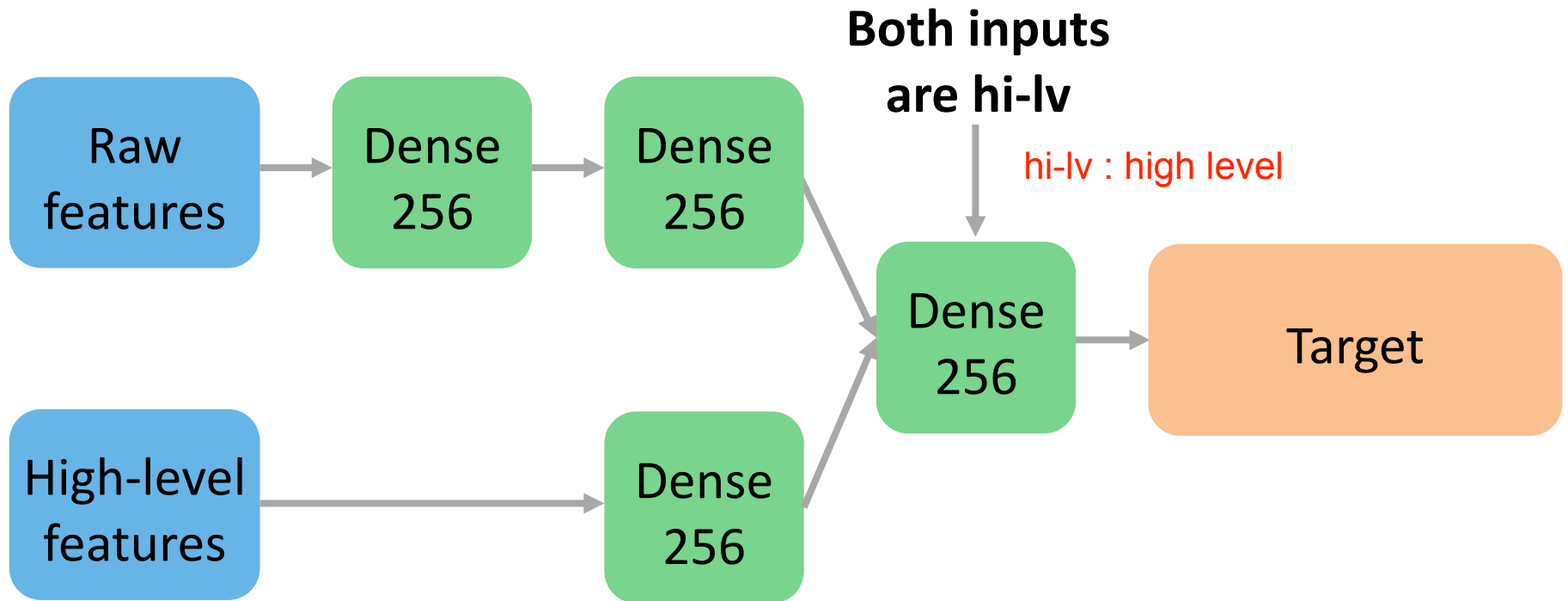
Deep learning is a language

Naive approach



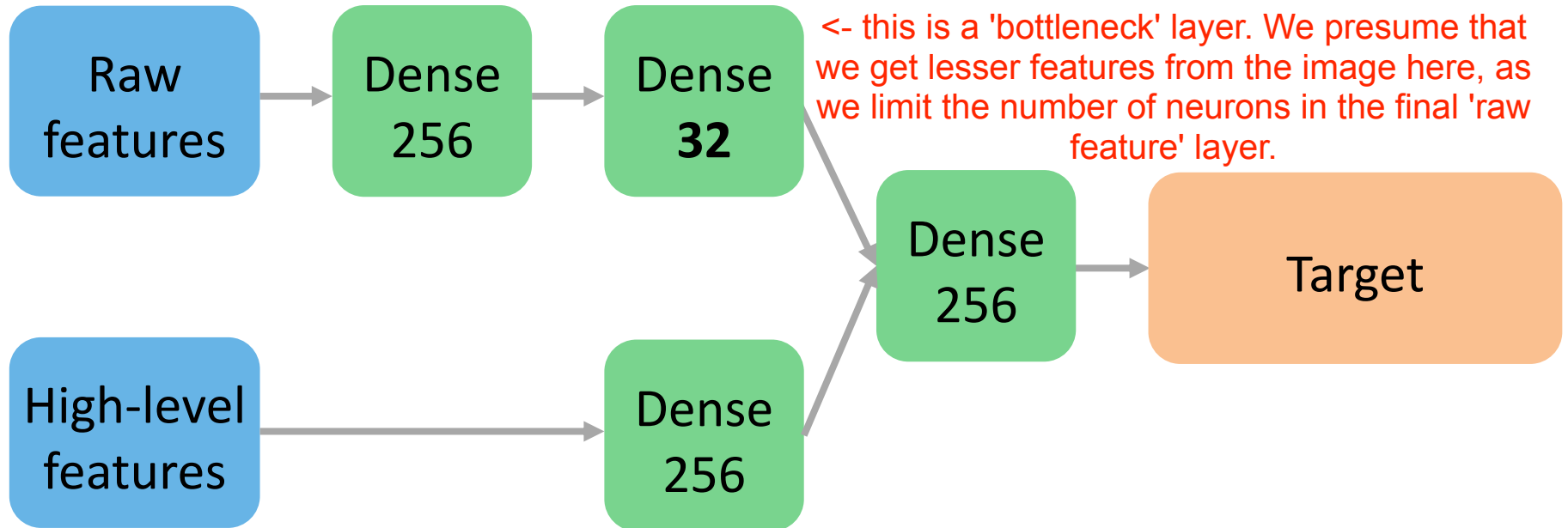
Deep learning is a language

Less naïve approach



Deep learning is a language

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



This could be useful if say, we want to emphasize less on image features