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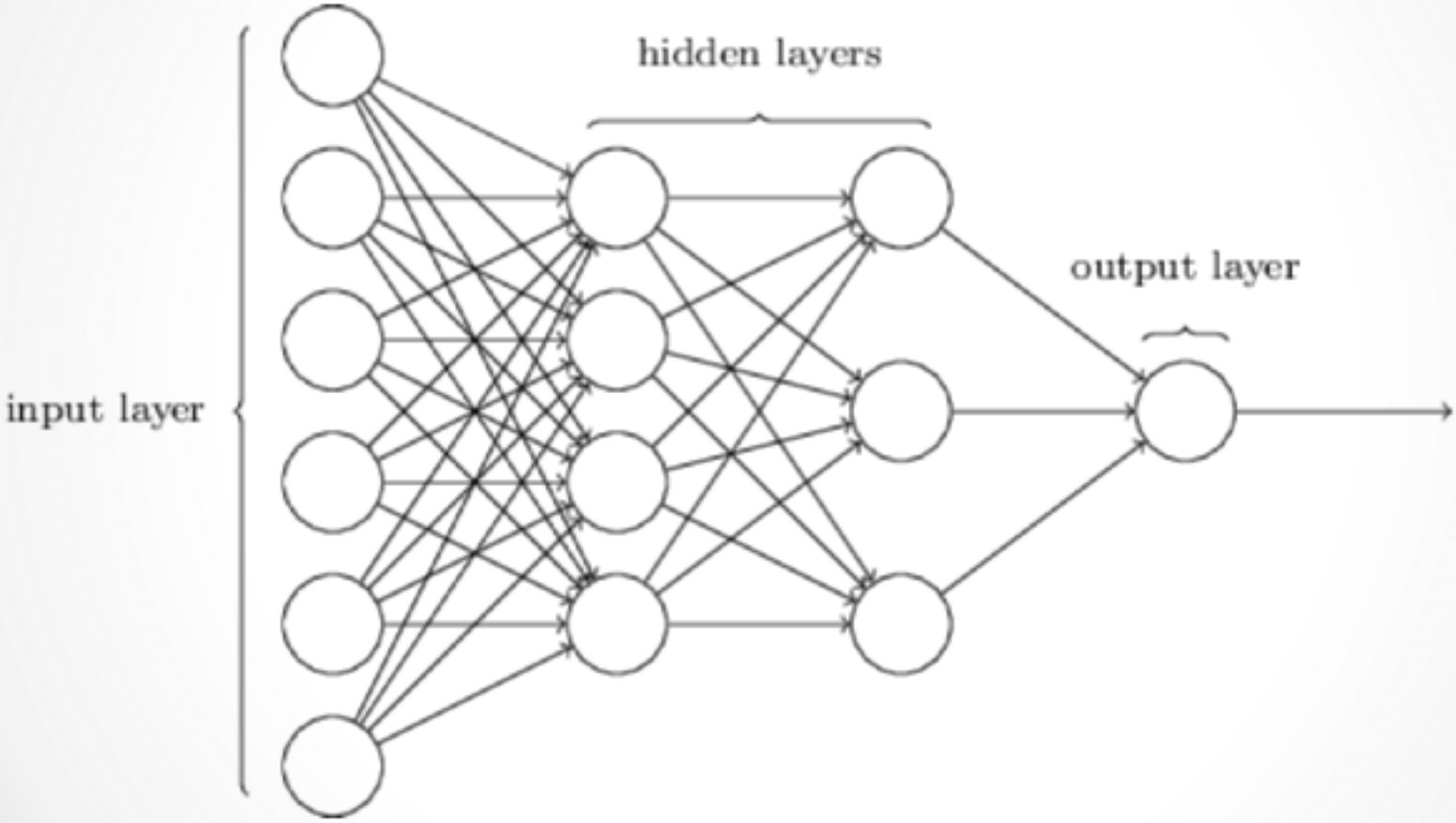
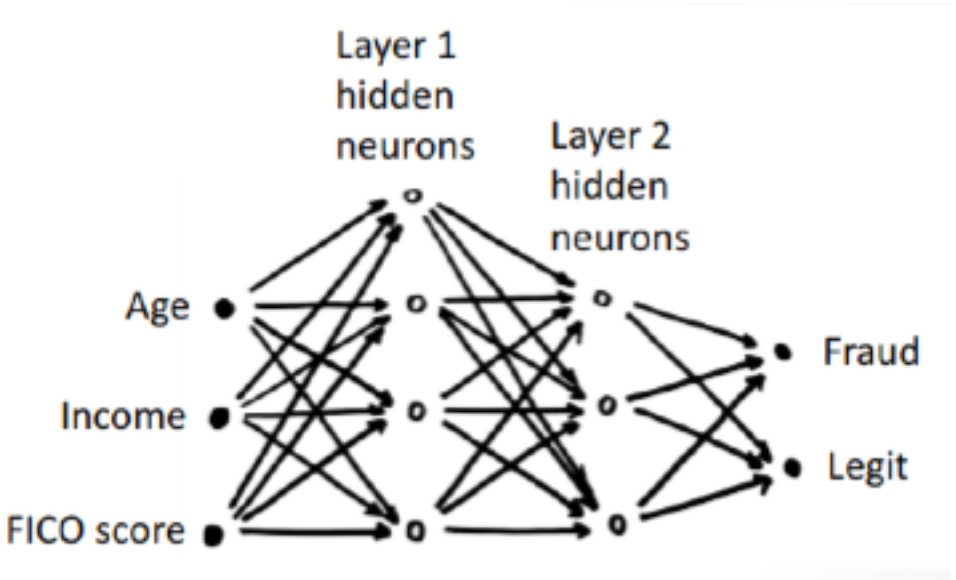
An example “Deep” Neural Network



Example of a deep neural net architecture.

Value of Deep Neural Networks

- Deep Learning learns a **hierarchy of non-linear transformations**
- Neurons transform their input in a non-linear way
- **Black-box, brute-force method, really good at pattern recognitio n**
- Deep Learning got a boost in the last decade due to **faster hardwa re and algorithmic advances**



Deep Learning model
=
set of connecting weights
+
type of non-linearity

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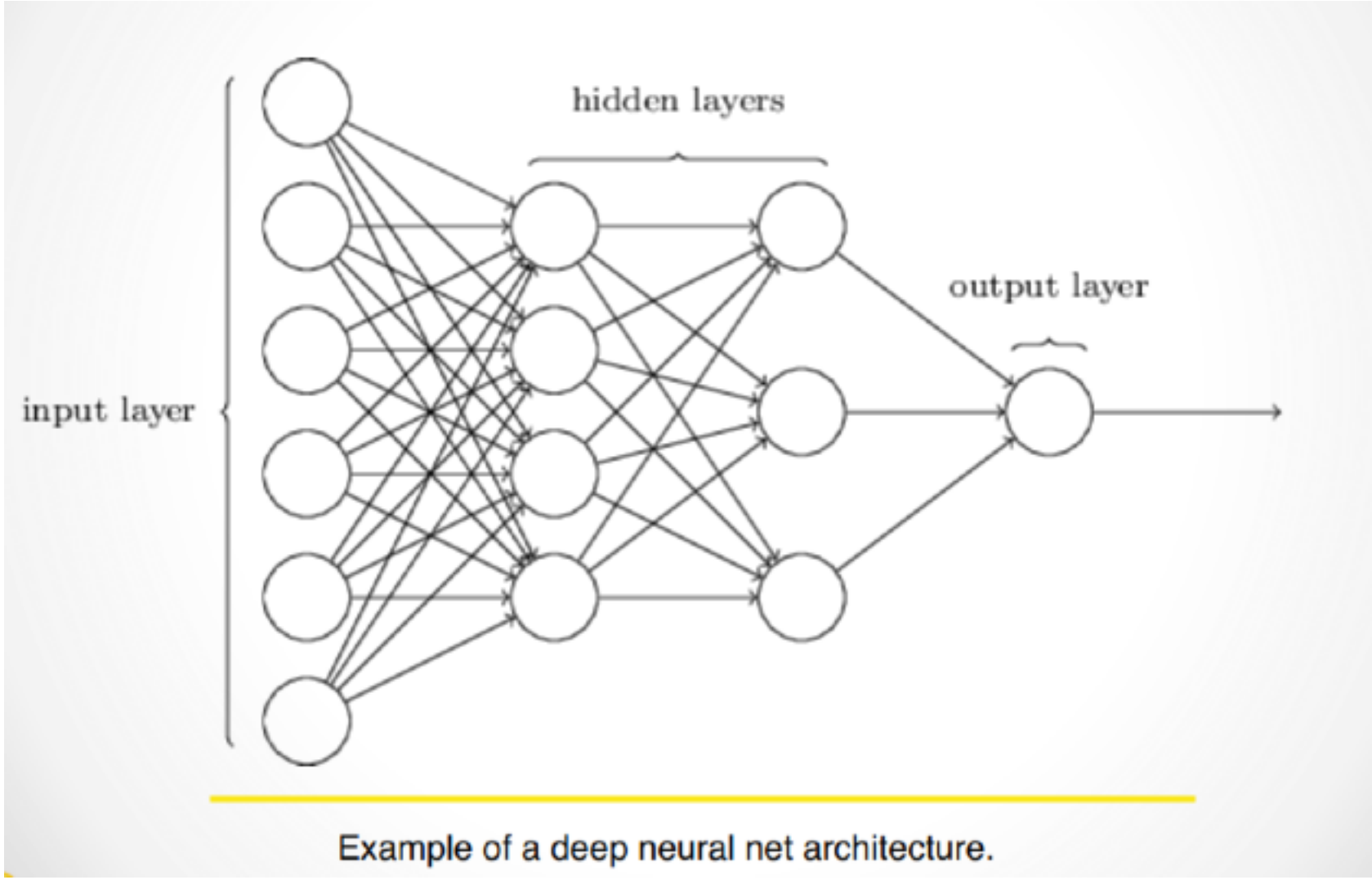
An example “Deep” Neural Network



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