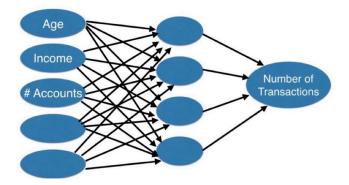
Introduction to deep learning

Fall/Winter 2020-2021

- §1 Introduction to Deep Learning in Python
- §1.1 Basics of deep learning and neural networks
- §1.1.1 Introduction to deep learning
- 1. What is the value of interactions for neural networks?

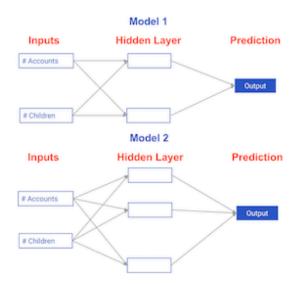
Deep learning uses especially powerful neural networks with almost anything such as *text*, *images*, *videos*, *audio*, or *source code* because neural networks really well account for interactions.

2. How do interactions work in neural networks?



3. Practice question for comparing neural network models to classical regression models:

Which of the models in the diagrams has greater ability to account for interactions?



- \square Model 1.
- \boxtimes Model 2.
- \square They are both the same.