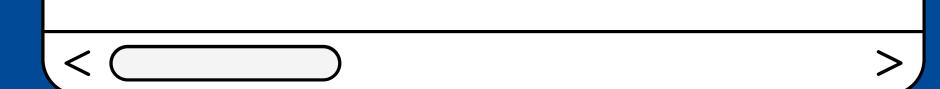
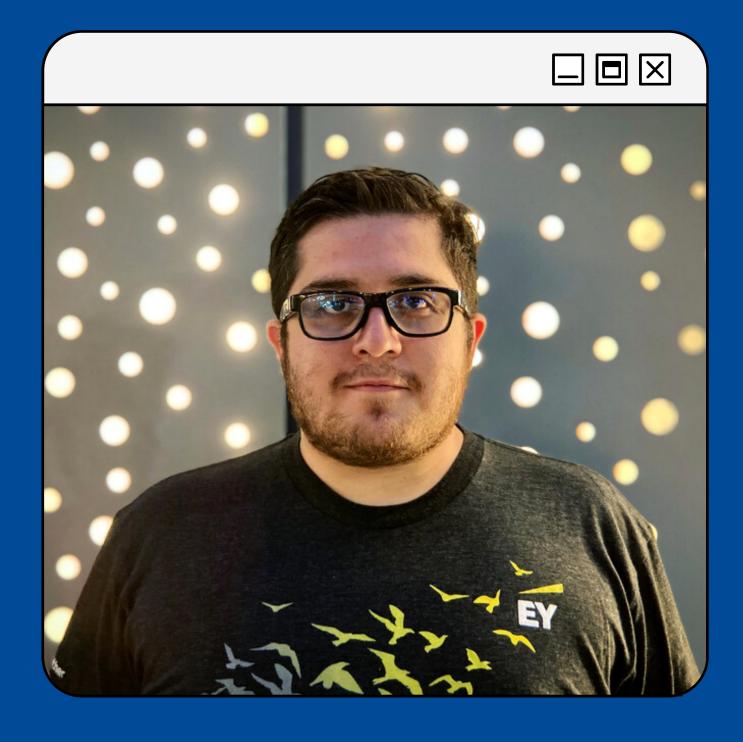


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Hugo Estrada S.

Cloud Engineer & Data Consultant































Deep Learning

Q



Practical Examples

- · Identifying objects and images.
- · Creation caption for thos images.
- Determining the sentiment of text, even with it has a layer of sarcasm.
 - · Create the logic of self-driving vehicles.



Keras

What on Earth is that?

Is a highlevel neural network API.

is written in Python and capable of running onTop of TensorFlow, Microsoft Cognitive Toolkit, CNTK or Theano.

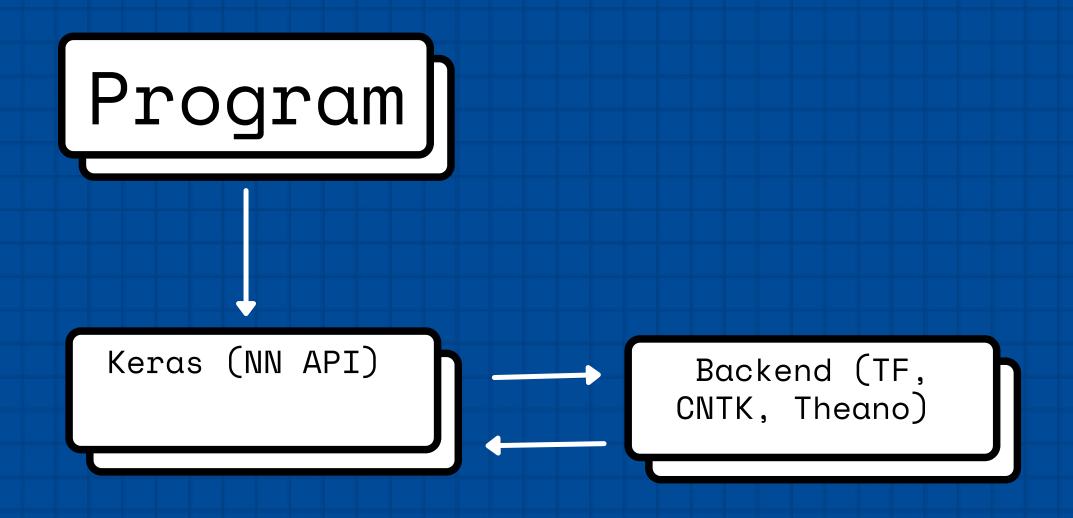
Threre's also an R version of Keras.

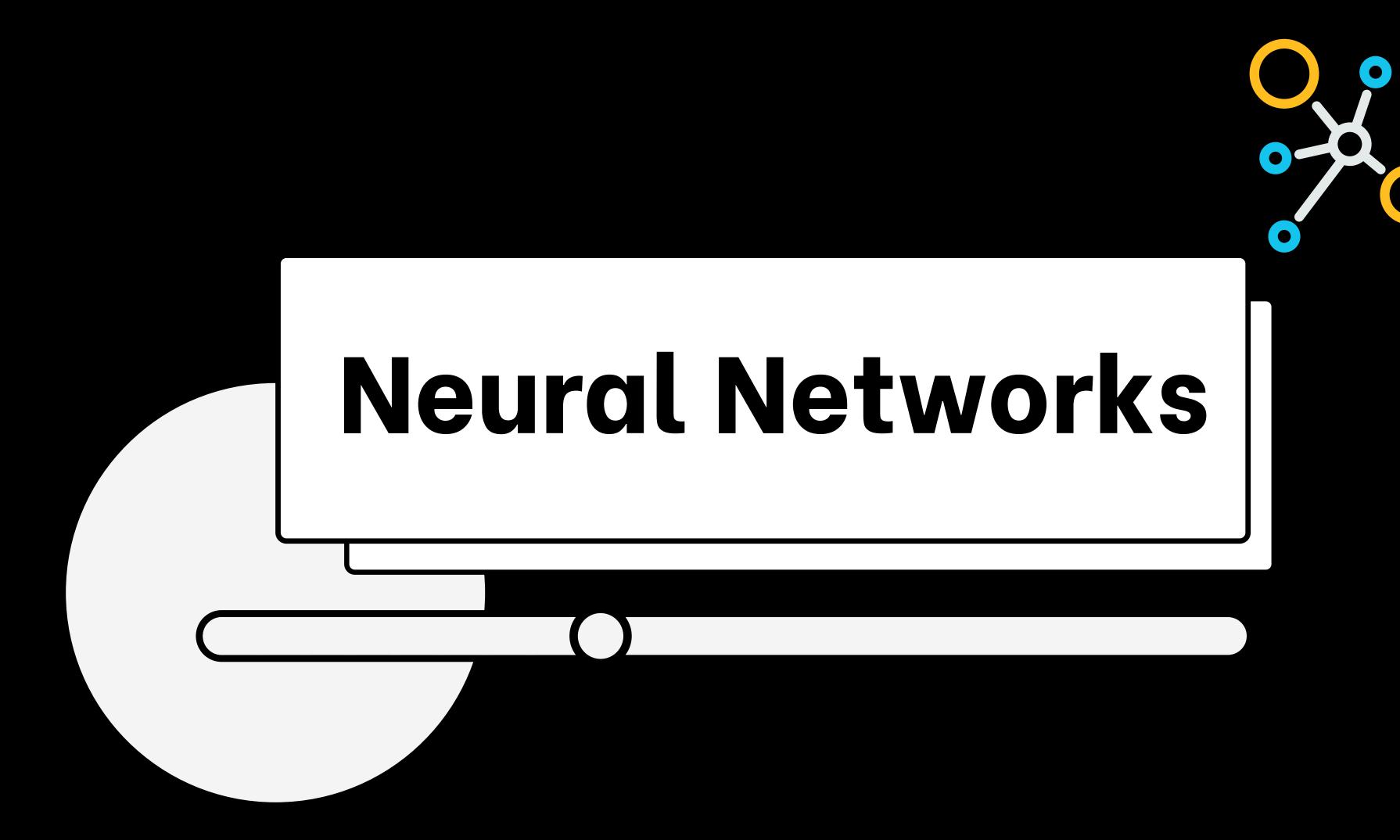
NLP is all about getting the computer what "nature" actually signifies.

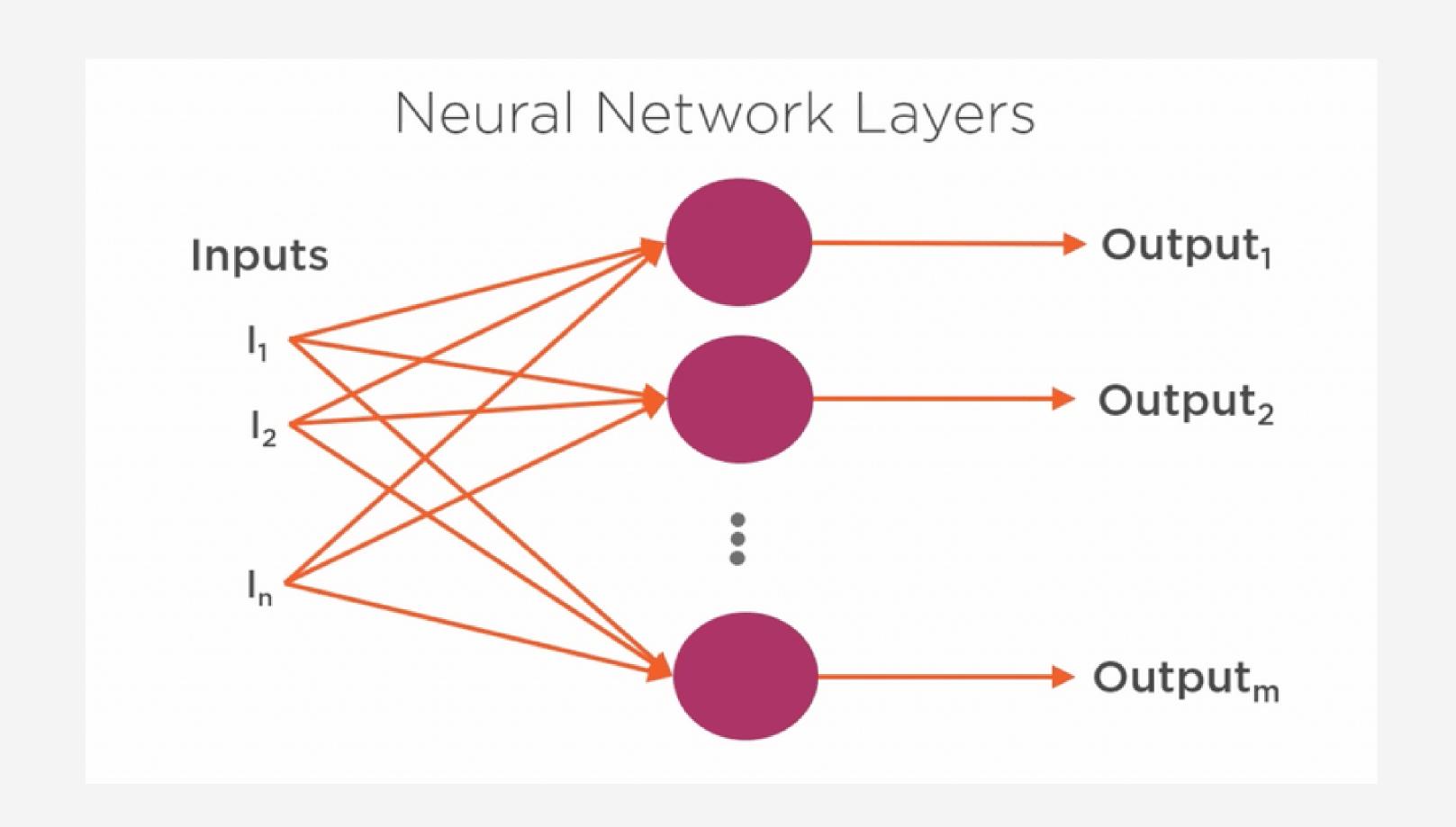
SPAM Filter, Auto-Complete, Auto-Correct, Sentiment analysis,
Topic modeling, Text classification,
Sentence segmentation or part-of-speech tagging.

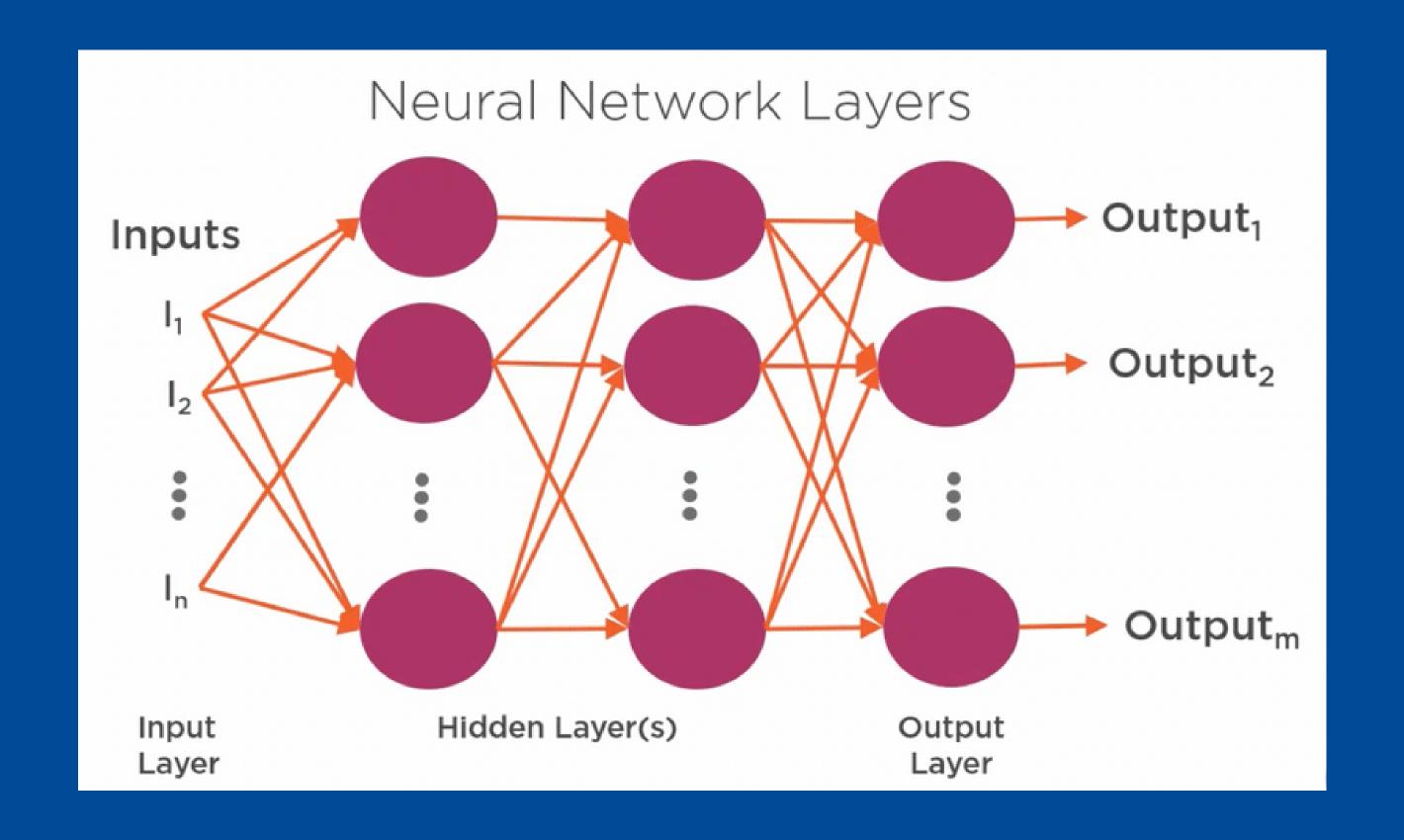
000 Keras Environment

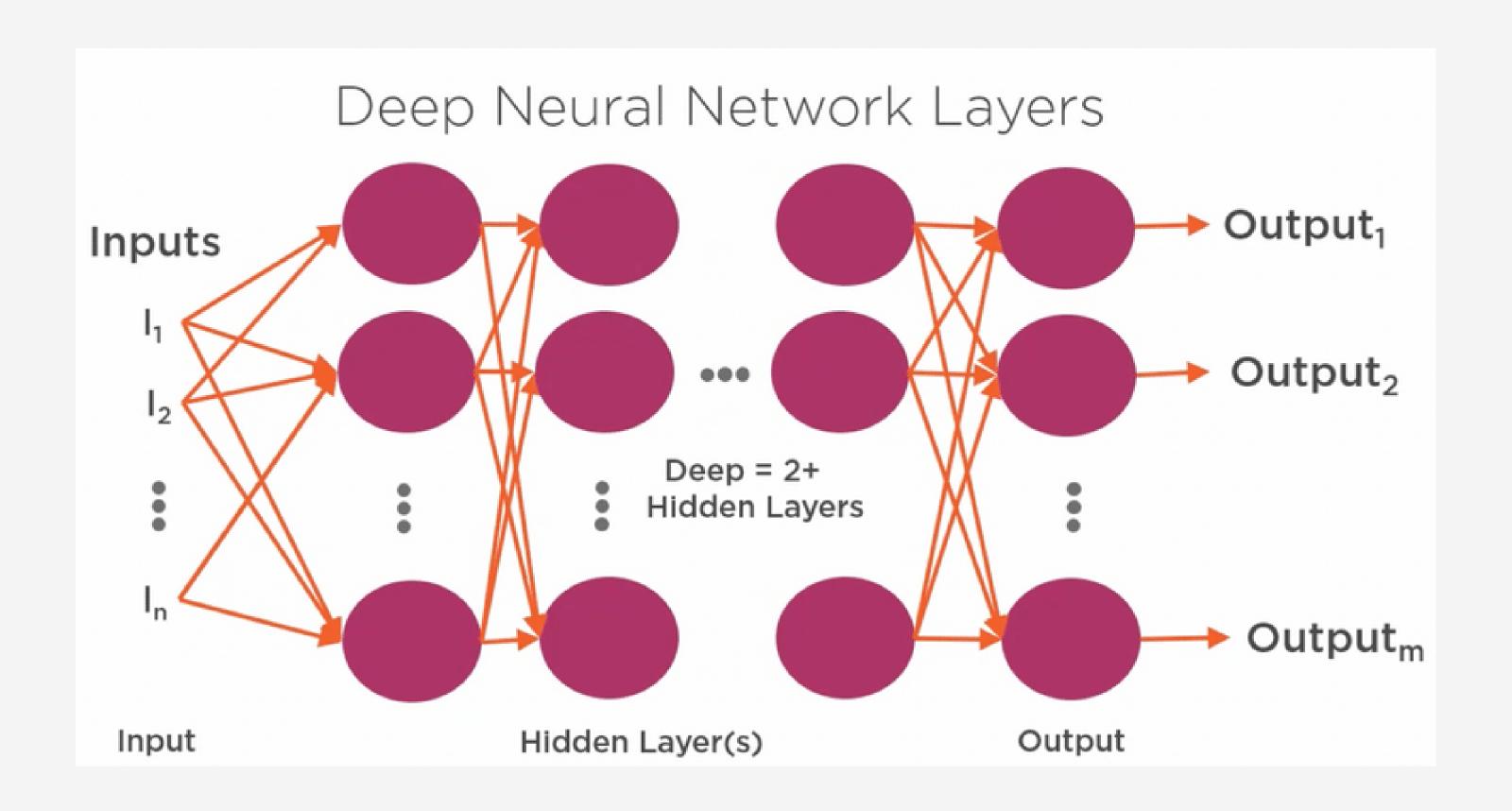
Keras Environment

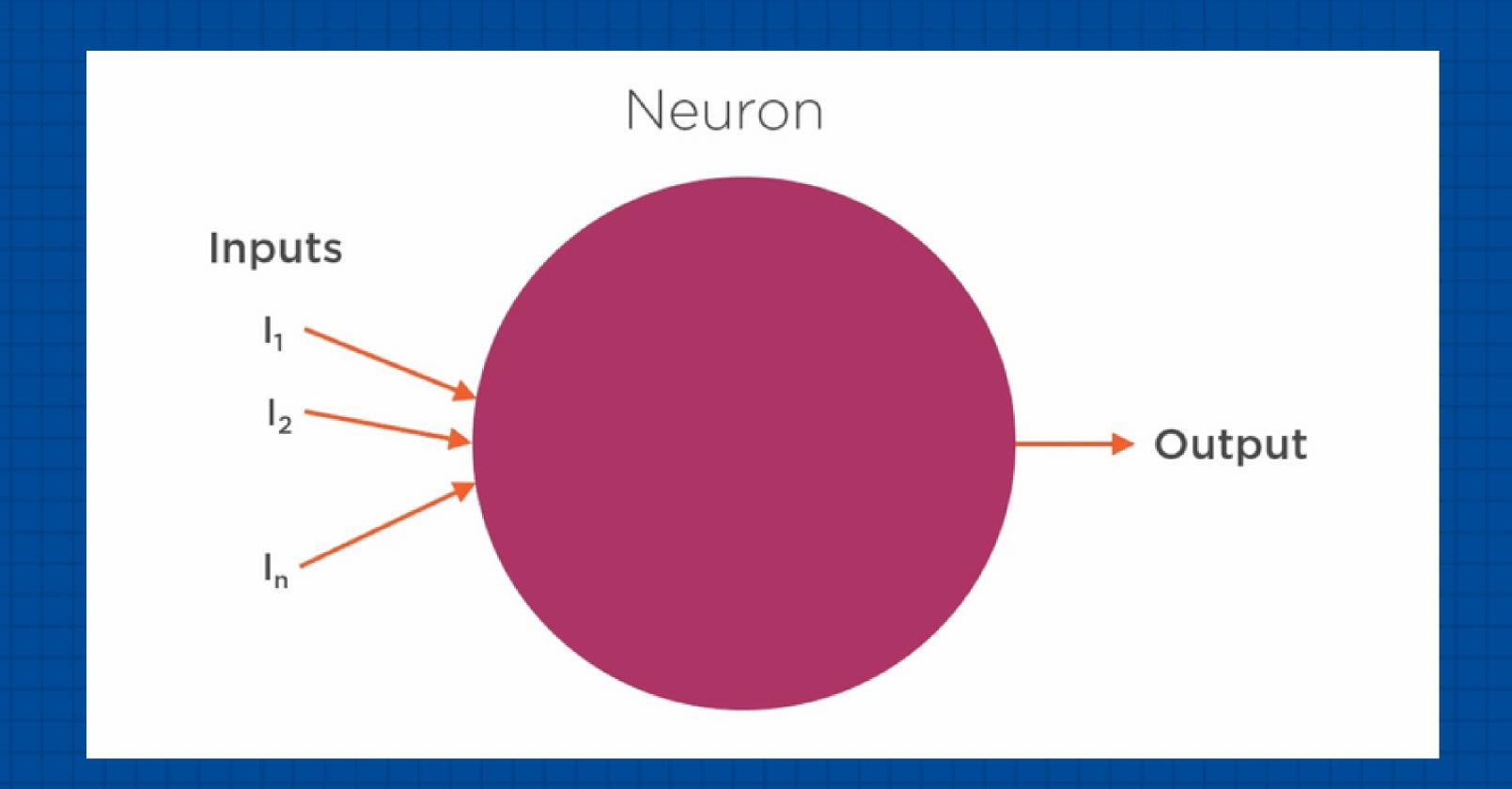


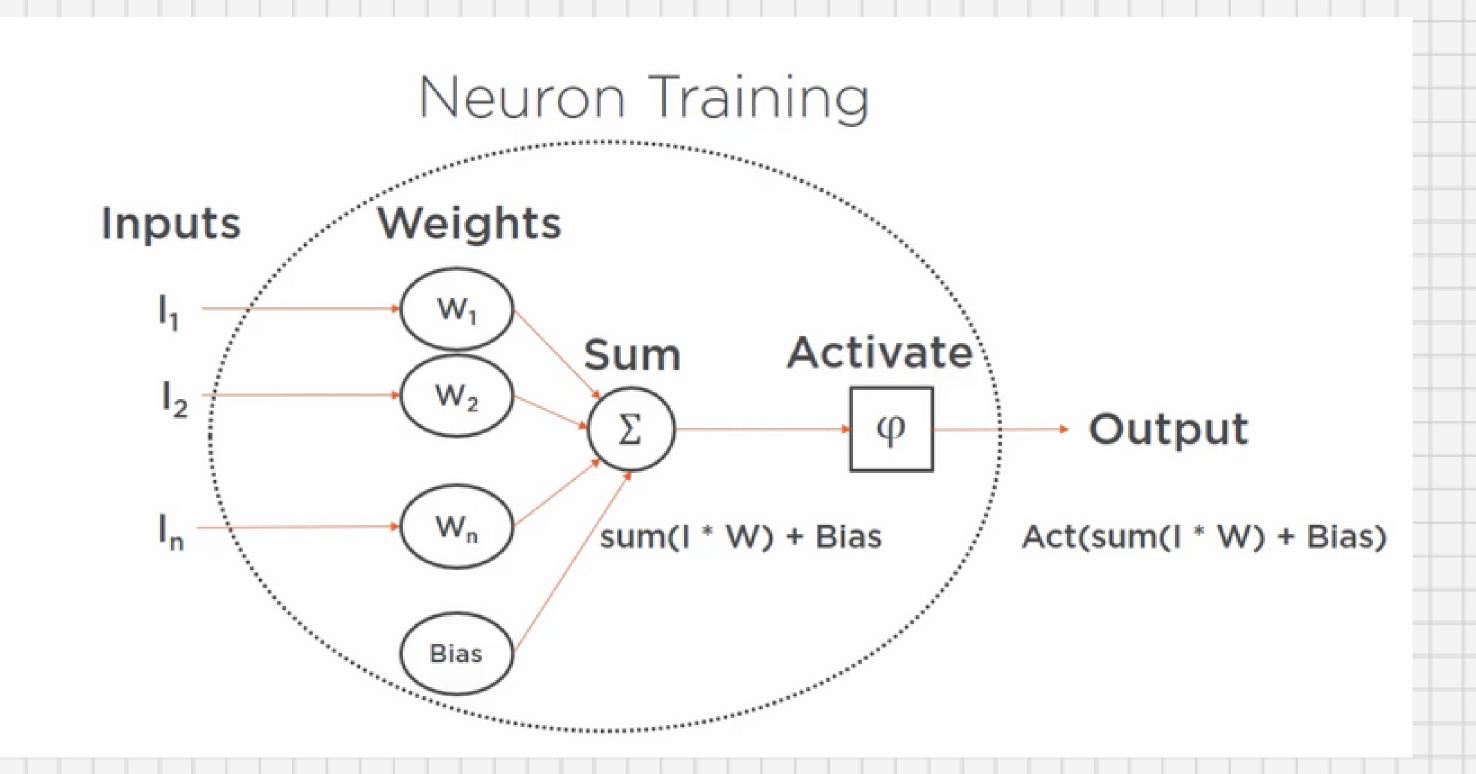




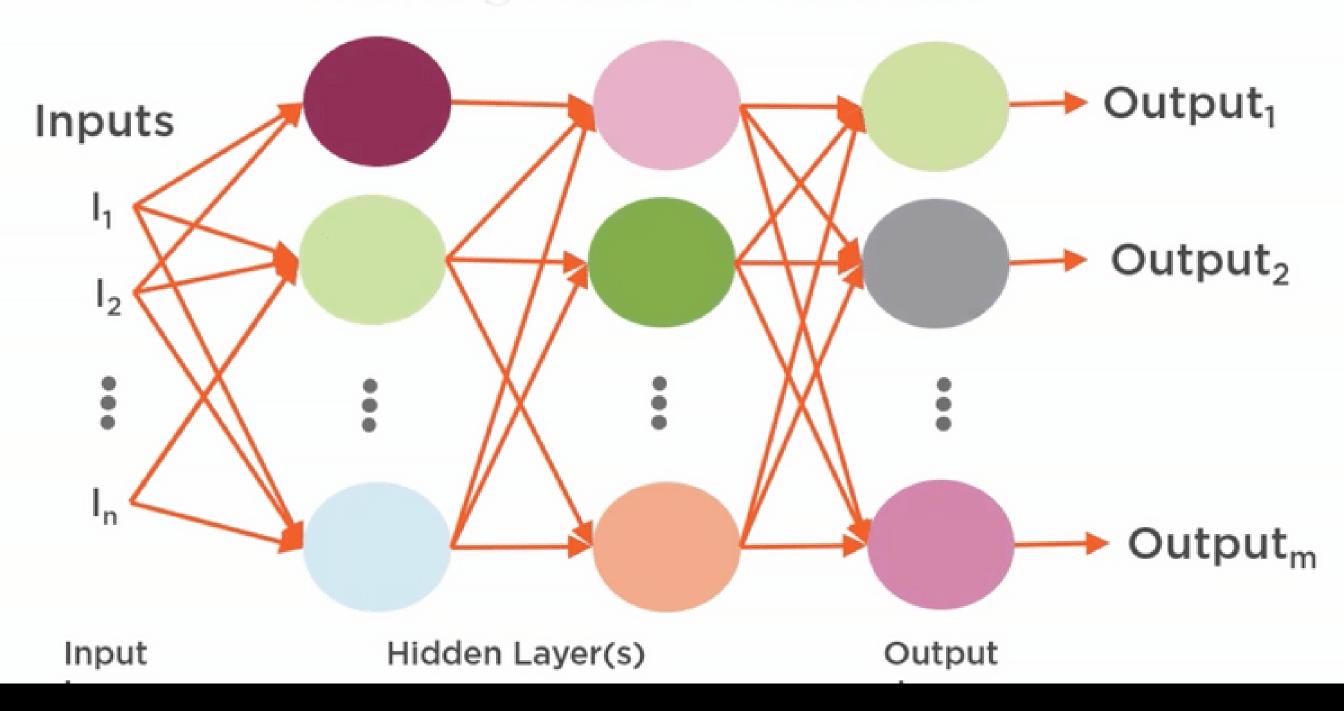








Trained Neural Network



Neural Networks in a Nutshell



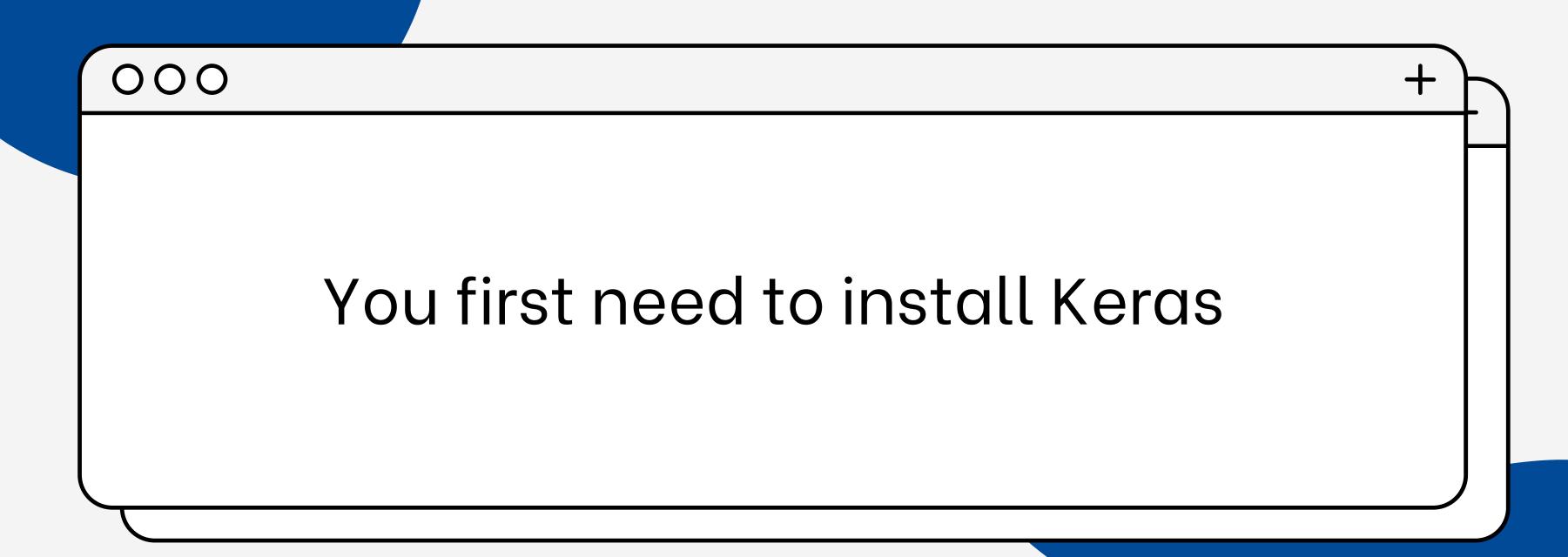
 $\times \Box -$

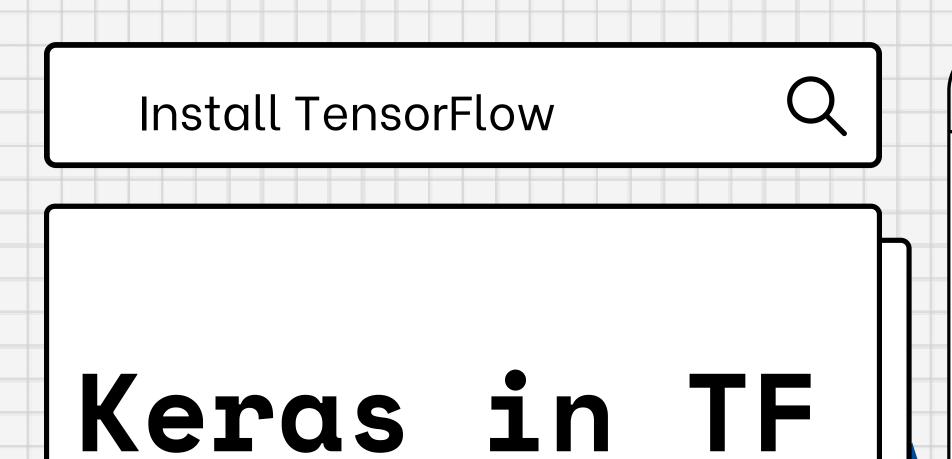
Input, Hidden, Output layers
Trained to minimize error
Training adjusts weights and
biases
2+ Hidden layers-> Deep

Neural Network



Creating your first Neural Network







Import tf. keras

No need to install standalone Keras

Close integration with TF

Tied to TF

Standalone Installation

Q

Keras as a separate package



Download and install Keras

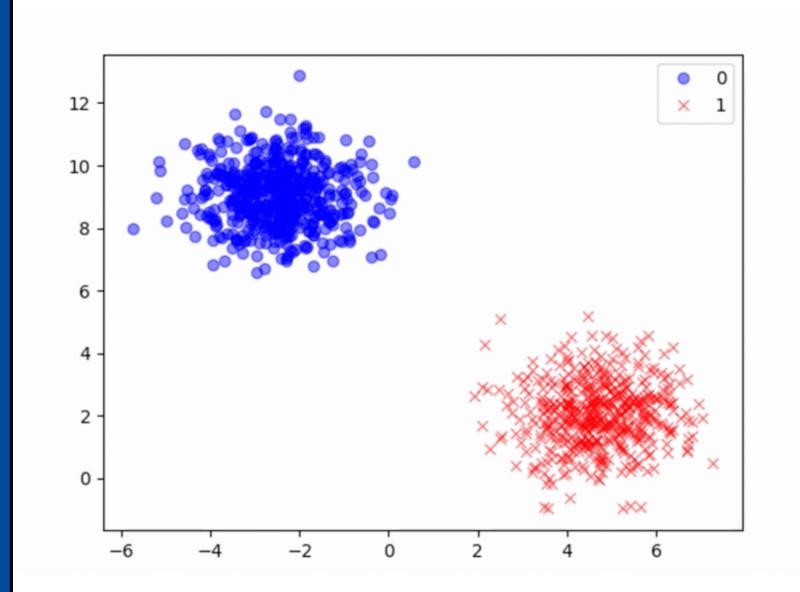
Install Keras on system/environment

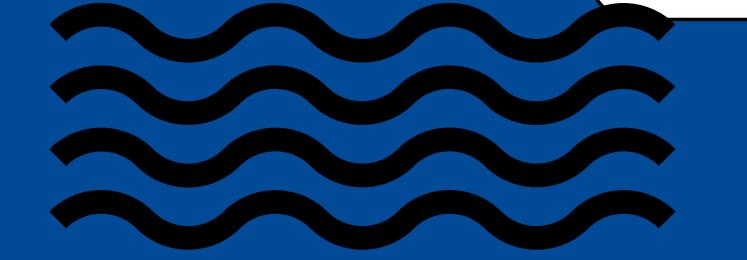
Keras handles interface with backend
Supports TensorFlow,
Theano, CNTK

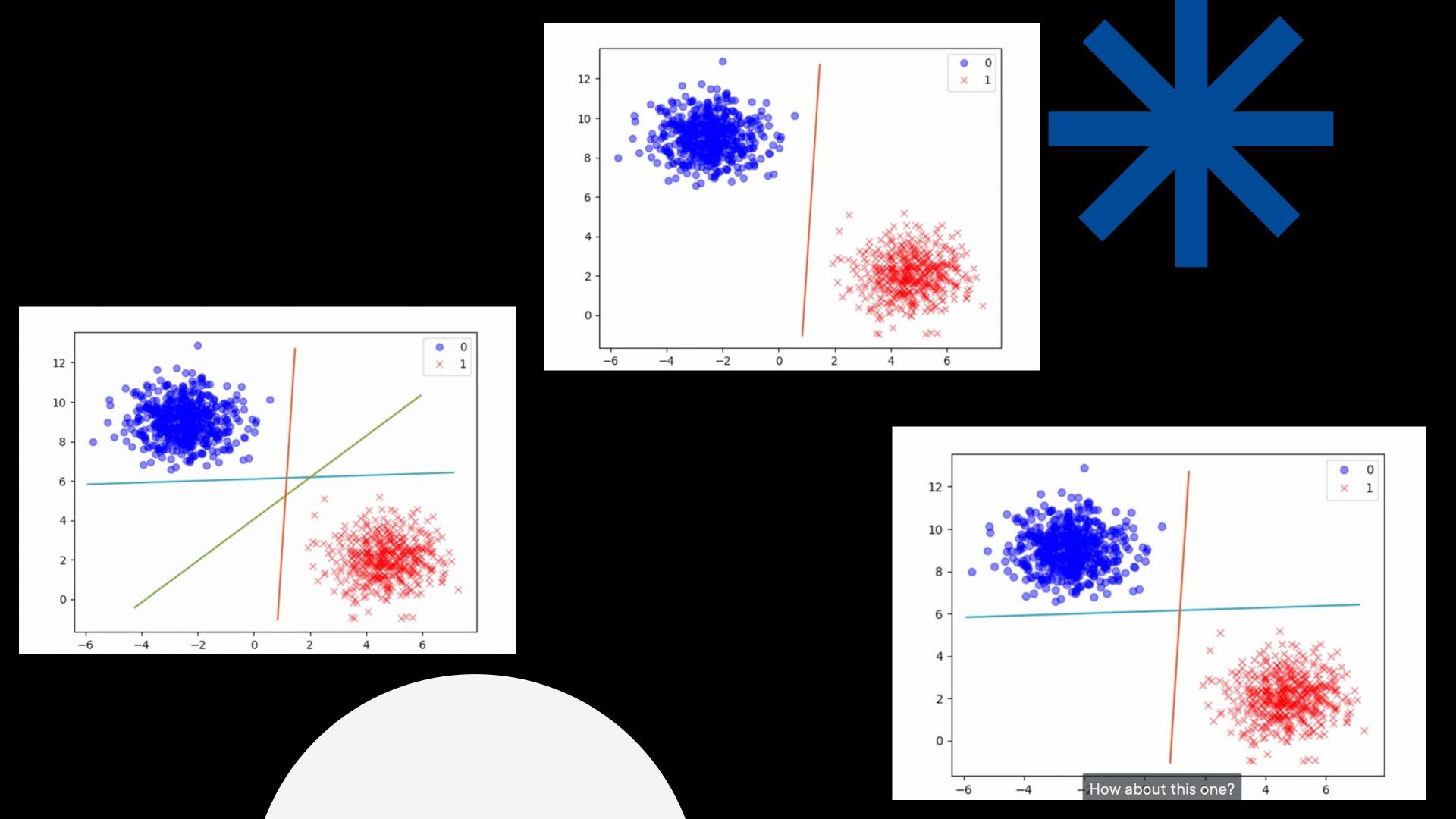
Our First Neural Network with Keras



Best Line to Divide the Data







Thanks!



dev.to/hugoestradas



linkedin.com/in/hugoestradas/



github.com/hugoestradas





@hugoestradas

TODAY'S CODE

HTTPS://GITHUB.COM/HUGOESTRADAS/TS-KERAS-101