# **What is a Neural Network**

Chart, scatter chart

Description automatically generated

This straight line tends to go to negative, but price of a house cannot be negative. So from that point lets flatten the curve to 0 (similar to ReLU)A picture containing diagram

Description automatically generated

Diagram

Description automatically generatedText, letter

Description automatically generatedText, letter

Description automatically generated with medium confidence

Diagram

Description automatically generated  
A picture containing diagram

Description automatically generated

# **Super-vised Learning with Neural Networks**

Graphical user interface, application

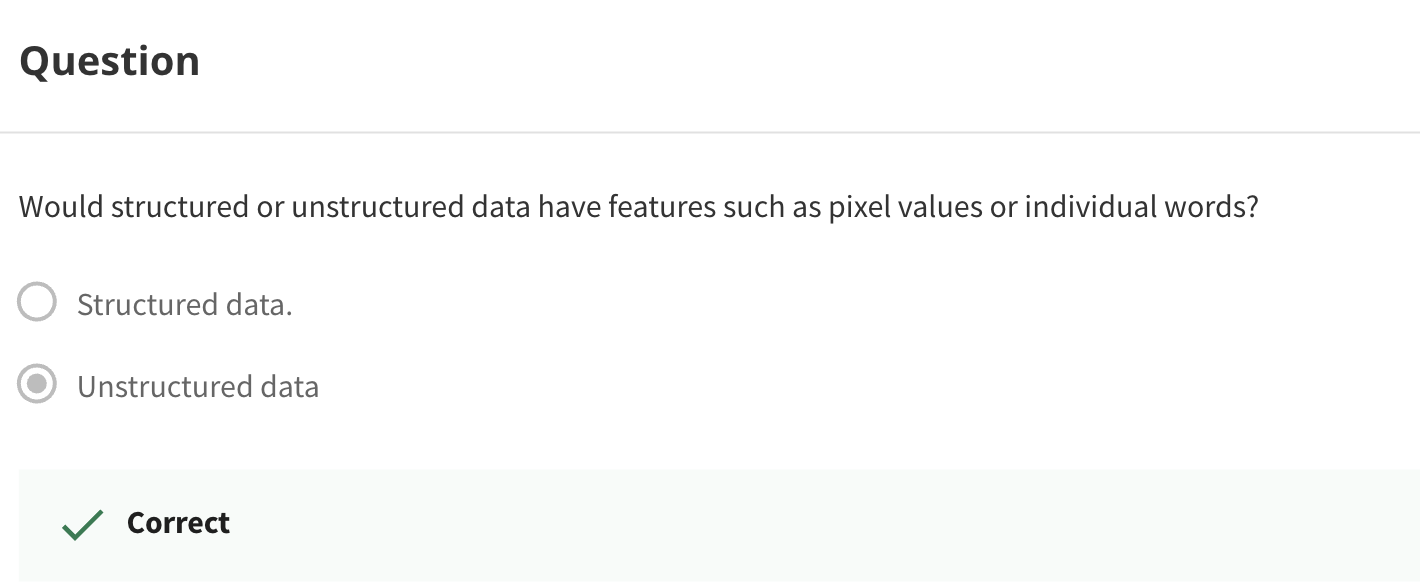
Description automatically generated

Real estate and Online Advertising 🡪 Standard Neural Network  
Photo tagging 🡪 Convolutional Neural Network  
Speech and Machine Translation 🡪 Recurrent Neural Network  
Autonomous Driving 🡪 Custom Hybrid Neural Network

Diagram

Description automatically generatedTable

Description automatically generated



# **Why is Deep Learning taking off?**

Chart, line chart

Description automatically generatedA picture containing chart

Description automatically generated

Diagram

Description automatically generated

Chart

Description automatically generated with medium confidenceText, letter

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# **Quiz**