

### ARCHITECTURAL INTELLIGENCE

DigitalFUTURES Summer 2022

# WHAT IS SUPERVISED LEARNING?

supervised learning refers to a category of methods in which we teach/train a machine learning algorithm using data, while guiding the algorithm model with labels associated with the data

#### WHAT IS SUPERVISED LEARNING?

# Input data Prediction Its an apple! **Annotations** Model These are apples

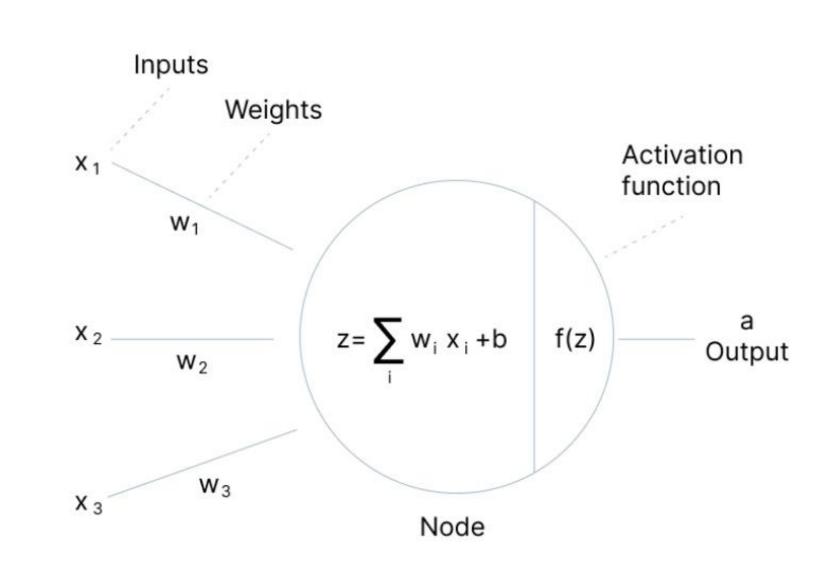
#### TRAINING SUPERVISED LEARNING MODELS:

- BACKPROPAGATION ALGORITHM
- RESILIENT BACKPROPAGATION ALGORITHM
- EVOLUTIONARY ALGORITHM
- LEVENBERG-MARQUARDT ALGORITHM

#### WHAT'S ACTIVATION FUNCTION?

The activation function defines the output of a neuron given a set of inputs.

Activation function decides whether to activate that neuron (ON) or deactivate it (OFF)



### **EXAMPLES**

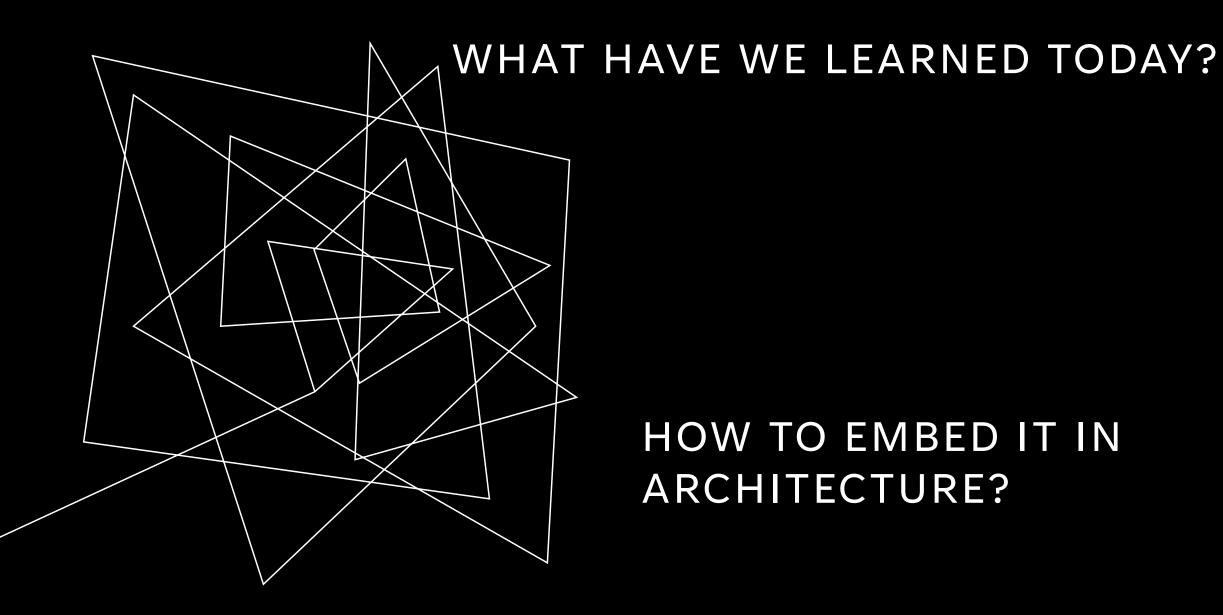
write a code that can predict the name of a space

CODE\_3.GH

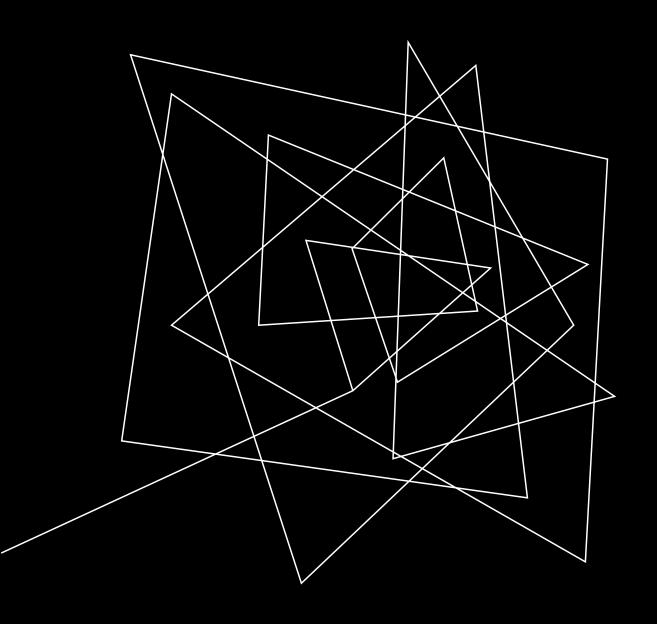
### **EXAMPLES**

write a code that can predict similar plan from a layout

CODE\_4.GH



## HOW TO EMBED IT IN ARCHITECTURE?



# THANK YOU ©