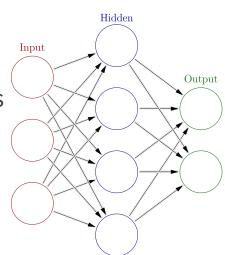




What is a Neural Network?

- Designed specifically for image classification tasks
- Tailored to recognize patterns and features within images
- Examples of applications: identifying diseases in medical images, recognizing objects in self-driving cars, etc



Model Goal: Identifying objects and letters

Objective: identify various objects and letters within a series of images

• Chosen targets: Bee, Football ball, Laptop, Letter M, Letter T, Train











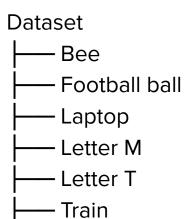


Dataset Creation

Structure:

- One main directory named "Dataset"
- 6 sub-directories, each containing images of

a specific object or letter



Model Development in VS Code

- Install and import necessary libraries
- Data preprocessing: load, split data into training and testing sets,
 rescale, resize
- Develop the neural network architecture using the Keras library
- Compile, train and evaluate
- Check the model by predicting a random picture from the test set