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# CNN INTRODUCTION

What is CNN?

Convolutional neural network, also known as convnet or CNNs are a special kind of neural network for processing data that has a known grid-like topology like time series data (1D) or image (2D)

- in CNN there is larger convolution layer that perform convolution operation.
- there is a three type of layer in CNN
  - Convolutional
  - Pooling
  - Fully connected layer

Why not use ANN?

- High computation cost
- Overfitting
- loss of imp info like spatial arrangement of pixels

Application of CNN:

- image classification
- object localisation.
- object Detection.
- face Detection and Recognition.
- Image Segmentation.
- Image Resolution increase.
- ~~color~~ Black and white photo to color photo
- posture recognition.