Some famous NN :

Feed Forward — i) MLP - Multi layer perceptron : Simplest type of Artificial NN.

It works better on supervised Problems. It can capture linearity and non-linearity relation very easily - both regression and classification. For non-linearity problems add more hidden layers and get better result.

Feed Forward ↑ ii) CNN - Convolution Neural Network : special type of NN where atleast one layer is convolution layer.

useful for image Processing and video Processing such as :- self riding car, healthcare where it can detect diseases like cancer.

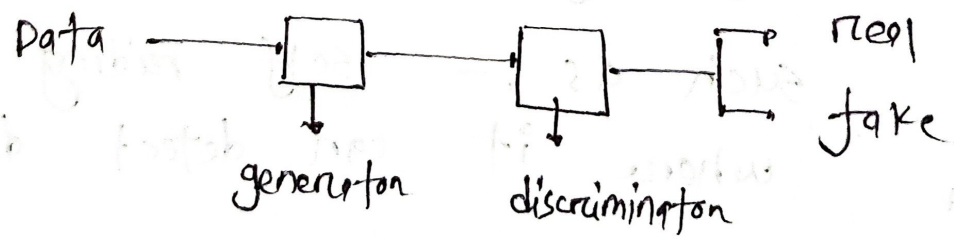
Feed Both Forward & Backward → iii) RNN - Recurrent Neural Network :

It's is very useful NN for time sequence data. It can capture the next event/ words by feeding back words.

LSTM, GRU are special type of RNN they are useful for NLP. chatbot

iv) Auto Encoders: They are not famous like others like RNN and CNN. It works in compression task. If we want to reduce / compress image without loosing the quality to lower size then it is useful there. We can also compress any type of data / files

v) GAN-Generative Adversarial Networks: Using this we can generate an image and it discriminates whether false / true or real / fake by seeing the generated image.



We can generate image, music, stories etc which doesn't exist in our earth.