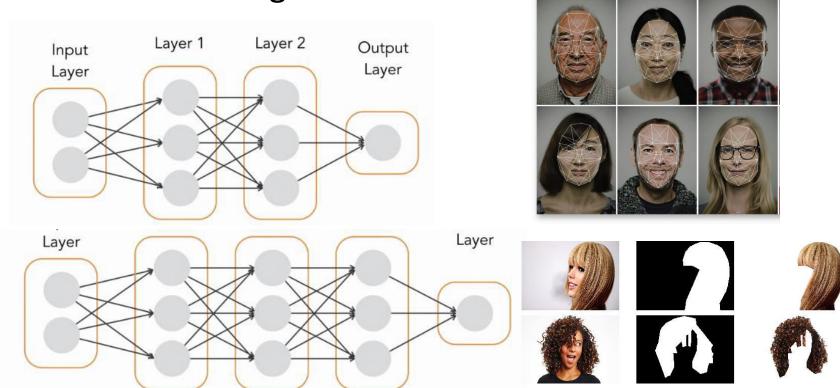
Flexibility of ANN is also a drawback

Hyperparameters

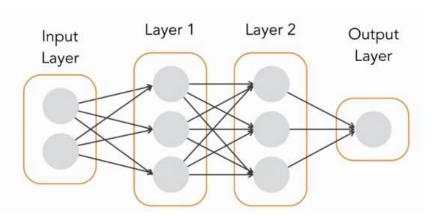
- Number of Layers
- Number of neurons per layer
- Type of activation function
- Learning rate
- Weight initialization logic
- And many more

- For most problems single layer is sufficient
- But going deeper increases parameter efficiency
- Transfer Learning

Number of Hidden Layers



Number of Neurons per Hidden Layers



- # Neurons in Input and output hidden layers are according to your data or problem
- Earlier Pyramid structures were preferred (large number of neurons in 1st layer and then gradually decreasing to output layer)
- Now same number of neurons in all hidden layer are preferred

Hyperparameters

 Learning rate
To tune learning rate start with a large value, that makes algorithm diverge, then divide this value by 3 and try again

Batch size
Should be < 32 and don't make it too small

EpochsUse early stopping