

## Day-08 Problem with perceptron

The perceptron is one of the simplest types of neural networks, it doesn't contain hidden layers.

1. only works for linearly separable data

- Can classify data if a straight line or hyperplane can separate the two classes.

Example: XOR data can't be solved using a single perceptron.

2. Can't solve non-linear problems.

- without hidden layers, it fails to detect complex pattern.
- Not suitable for image, voice, or complex data.

visit "tensorflow playground" to visualize the various type of NN problems.