

## Deep Learning: Recurrent Neural Networks in Python

We'll cover the following topics in the course

- What is a Neural Network?
- Popular Neural Network
- Why do we need a Recurrent Neural Network?
- What is a Recurrent Neural Network?
- How does a Recurrent Neural Network work?
- Long Short Term Memory (LSTM)
- Use case implementation of LSTM

Types of Recurrent Neural Networks: There are four types of Recurrent Neural Networks:

1. One to One
2. One to Many
3. Many to One
4. Many to Many

- Vanishing Gradient Problem
- Gradient Problem Solutions
- Long Short-Term Memory Networks
- Workings of LSTMs

