

Intro to NN & DL - Week 1

Learning Objectives of the session:

- Gauging learner's understanding on the topic of the week.
- Understanding the concepts clarity of the learners on:
 - Neural Networks deconstructed for SL (Classification) & Intro to TensorFlow and Keras
 - Introduction to Perceptron & History of Neural networks

Case Studies (Hands on) on the topics mentioned.

- Doubts solving, industry perspective and practices.
- Summary of the session's learning.

Structure of the Session

Time Distribution of 2 hours	Topic	Detail
10 min	<ul style="list-style-type: none"> • Gauge learner's understanding Introduction to Neural Networks & Deep Learning 	<ul style="list-style-type: none"> • Go through all the learners in the group and try to understand the reach of the week's learning within the group on the week's topics. • Highlight the important concepts majority of the group is facing doubts on.
20 min	<ul style="list-style-type: none"> • Concepts clarity of the covered topics. 	<ul style="list-style-type: none"> • Clarify the concepts on the doubts identified.
60 min	<ul style="list-style-type: none"> • Case study on Neural Networks 	<ul style="list-style-type: none"> • Use the case study provided to have a hands on exercise. Explain the problem statement, features and data preprocessing and use various techniques to come to a result through the model. • Data : Churn Modelling.csv
25 min	<ul style="list-style-type: none"> • Doubts clearance • Industry perspective on the mentioned topics • Buffer 	<ul style="list-style-type: none"> • Use this time to clarify additional doubts. • Also, explain the industry practices on the techniques as per your experience.

5 min	<ul style="list-style-type: none">Summarize the session	<ul style="list-style-type: none">Provide a summary of the session.
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