

# Natural Language Processing - Week 4

## Learning Objectives of the session:

- Gauging learner's understanding on the topic of the week.
- Understanding the concepts clarity of the learners on:
  - Introduction to Sequential models

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"> <li>• <b>Gauge learner's understanding</b> Natural Language Processing</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Highlight the important concepts majority of the group is facing doubts on.</li> </ul>
20 min	<ul style="list-style-type: none"> <li>• Concepts clarity of the covered topics.</li> </ul>	<ul style="list-style-type: none"> <li>• Clarify the concepts on the doubts identified.</li> </ul>
60 min	<ul style="list-style-type: none"> <li>• Case study on Sequence Tagging</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Data: ner_dataset-2.csv</li> </ul>
25 min	<ul style="list-style-type: none"> <li>• Doubts clearance</li> <li>• Industry perspective on the mentioned topics</li> <li>• Buffer</li> </ul>	<ul style="list-style-type: none"> <li>• Use this time to clarify additional doubts.</li> <li>• Also, explain the industry practices on the techniques as per your experience.</li> </ul>

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