

SESSION PLAN 31

Session Name

Topic Modelling on Text

Learning Outcomes

- Learn the definition and applications of Topic Modeling
- Know the working and Implementation of LSA Modeling
- Know the working and Implementation of LDA Modeling
- Know how to visualise and interpret document topic models

Prerequisites for the Student

- Topic Modelling on Text- Go through the concept and solve the tasks and assessments.

Student Activities

- Discuss with the Mentor what you have learned.
- Overview of Topic Modelling on Text
 - Topic Modelling with LSA
 - Topic Modelling with LDA
- Video on Topic Modelling:
<https://www.youtube.com/watch?v=SjRss8Uk6mQ>
- What would be considered the least number of documents for training an LDA topic model? Is a corpus of 200 documents large enough?
- How do we decide the number of topics in the documents while doing topic modelling?
- What α and η represent with respect to topic modelling?
- Practice problem on Topic Modelling on Text
 - Refer the GitHub repo for problems
- Quiz on Topic Modelling on Text.
- Code Along
- Questions and Discussion on doubts - AMA

Next Session

- Concept - Sentiment Analysis
- Key topics to be highlighted - highlight where they would need to spend more time and importance w.r.t Data Science.
 - Handling of unsupervised data
 - Definition and working of Sentiment Analysis
 - Vectorization of text data
 - Implementation of classification algorithms