# MODULE 24

# **Joke Data**

**Package used in R**

Recommenderlab : Used for Recommendation

Readxl : Used to Read , Load Excel

reshape2 : Used to Data Transformation

**Package used in Python**

Pandas : Used for Data Manipulation

surprise: Used for Recommendation

SVD: Used for Singular value decomposition Algorithm

train\_test\_split: Used for Data Partitioning

Collections

Defaultdict: Used to create a Collect of Dict

**Loading the data**

Loading the Joke dataset on R and Python

**EDA**

No NaN Data Found in the dataset.

Transforming the data according to the surprise library.

Removed the ID Variable

Renamed the Variables from User name to Uid, Joke ID to Iid

Transformed the data to Reader Object to run the algorithm

**Data Partitioning**

Splitted the data into Training and Testing (75:25 Ratio)

**Modeling and Result**

This model will Recommend every user a 5 Jokes.

