TEXT WITH R





data/ted_talks_2021/

INTRODUCTION EXPLORE THE DATA SET

Q1: What columns and how many rows exists in the data set?

Q2: What is one row in the data set?

Q3: What is the timespan of talks in the data?

Q4: How many talks are there per year?

Q5: Which columns contain strings?

GROUP WORK PART 1 SEARCH AND TRANSFORM TEXT

Q1: How many times is "education" mentioned in the title of all talks?

Q2: What is the most common first name among all speakers?

Q3: What is the most often applied tag among all talks?

Q4: How many events were hosted in New York?

Q5: Which talk tagged "technology" had the most views?

Q6: What is the top ten of first words across all talks?

Q7: What is the distribution of the description length in words?

GROUP WORK PART 2 TOKENIZE TEXT

- Q1: Apply the five steps to tokenize the talk transcripts into atomic words!
 - 1. Filter the data to include talks from 2010 onwards
 - 2. Apply transformations to clean and normalize the transcripts
 - 3. Split the transcripts into words (or tokens)
 - 4. Remove common english stop words
 - 5. Add part of speech tags and keep only verbs in the final result

GROUP WORK PART 3 RULE-BASED TEXT CLASSIFICATION

- Q1: Perform a deductive topic classification to identify talks about Al!
 - 1. Create a theory-driven dictionary for the topic Al
 - 2. Apply the dictionary to the tokenized transcripts
 - 3. Decide on a metric and aggregate keyword matches
 - 4. Assign a class to each talk based on the metric
 - 5. Review the result and refine your dictionary