Activity: Building Text Features

ANSWER KEY

Dune (2021) Reviews

A spicy journey to an amazing future



Unlike anything we've seen in science fiction before



A smart science fiction film



• [We've] seen too much of this sort of thing before



 An effort to create a grand science fiction epic has yielded something cold



Part 1: Define the vocabulary

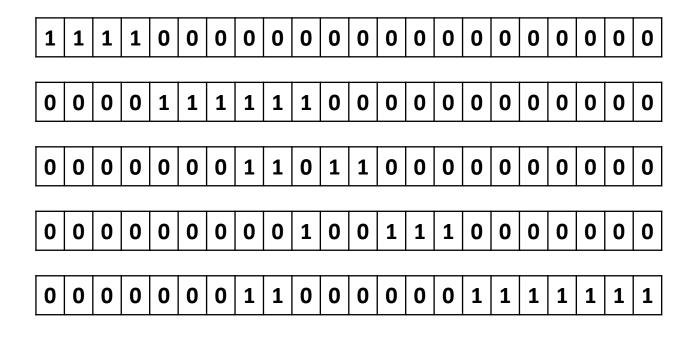
(feel free to discard common words like 'a' and 'to')

- A spicy journey to an amazing future
- Unlike anything we've seen in science fiction before
- A smart science fiction film
- [We've] seen too much of this sort of thing before
- An effort to create a grand science fiction epic has yielded something cold

spicy journey amazing future unlike anything seen science fiction before smart film much sort thing effort create grand epic yielded something cold

Part 2: Use your vocabulary to create feature vectors for <u>two</u> of the reviews

- A spicy journey to an amazing future
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- A smart science fiction film
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Part 3: Calculate tf-idf features for <u>two</u> words from different reviews

• A **spicy** journey to an amazing future

SPICY:

• Unlike anything we've seen in science fiction before

tf = 1/7 df = 1/5 tf-idf = 5/7

• A smart **science** fiction film

• [We've] seen too much of this sort of thing before

SCIENCE:

• An effort to create a grand science fiction epic has yielded something cold

tf = 1/5 df = 3/5 tf-idf = 1/3