SounderFM

September 27, 2022 12:46 PM

Take home – highlight engaging clips

- Definition of engaging
 - Engaging topicsPySS3
 - Text sentiment
 - o Interesting entities, trending in current news
 - o Topic change detection :
 - Paper: https://arxiv.org/pdf/2106.12978.pdf
 - Link:

 $\underline{https://github.com/gdamaskinos/unsupervised_topic_segmentation/blob/cefa8ba65f}$ 964220435d35a0cb39722790f9c0b4/core.py

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- $\circ \quad \underline{\text{https://www.diva-portal.org/smash/get/diva2:1576969/FULLTEXT01.pdf}}$
- o PQ selection : https://github.com/tannerbohn/AutomaticPullQuoteSelection
- o Awesome sentiment : https://github.com/laugustyniak/awesome-sentiment- analysis/blob/master/README.md
- READLESS: https://github.com/AdiChat/senpaihttps://github.com/Ighina/DeepTiling
- https://github.com/riedlma/topictiling
- https://github.com/chschock/textsplit
 - Audio sentiment:
 - https://github.com/audeering/w2v2-how-to

POST /analyze

- · Accepts transcript or audio file Binary or text file
- Triggers analysis
- · Responds with ID

Analysis Class

· Interacts with API

- Tests for API level
- Analysis class
 - o Test interface
- Text analysis
- Audio analysis

Analysis Text

• Topic segmentation

Feature extraction Text classification

Sentiment Analysis

Text emotion recognition

 BERT based or TextTiling based TextTiling looks for paragraph breaks

https://huggingface.co/kiri-ai/t5-base-qa-sur
https://pypi.org/project/text2emotion/

o VAD analysis of text : https://github.com/bag https://github.com/bagustris/text-vad,

o Maintain an ordered candidate list of senten

• Sentence ID would be needed

Analysis Audio • Audio feature extraction

• Return top candidate segments

- · Audio sentiment
- · Audio highlights

(Can use to re-rank segments)

POST /highlights/{id}

- Returns a JSON
 - o Begin time
 - o Endtime