Multimodal Sentiment Analysis

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Task

Sentiment analysis of Youtube news videos

- ▶ Fuse information from visual and text signals
- Combine information from the video itself with Youtube metadata and related social media data

Data Used

- ▶ News clips from the CNN Youtube channel
 - Video
 - Transcript
 - ► Title
 - Description
 - Comments
- Related Twitter tweets

Ideas on Techniques

Co-training

- Video content
 - Facial expressions
 - Gestures
 - ▶ Transcript
- Metadata
 - Youtube title
 - Youtube description
 - Youtube comments
 - Related tweets

Why Is It Cool?

- Multimodal analysis has shown promise in a variety of fields
- ▶ Sentiment is tied up in mediums other than text
- ► The field of sentiment analysis would benefit from the creation of a framework for multimodal processing

Contributions

- Natural Language Processing
 - Combining text from different fields (video title, description, comments, tweets)
- Machine Learning
 - Fusing features extracted from different modalities
- Web Technologies
 - Gathering related content from different sources (Youtube, Twitter)