



Multimodal Approaches for Treatment Outcome Prediction

Motivation

The prediction of the outcome of a (medical) treatment can be conducted considering various information. Depending on the treatment, information can come in different data modalities, e.g., audio or video recording, textual records, or bio-markers. To train an automatic prediction model, it can be beneficial to combine data with different modalities. However, it is important to study the effects of different modality combinations. In particular, the role of textual and audio data as additional diagnostic indicators in therapy will be the focus of this investigation.

Task Description

- Literature review: Exploring and investigating ways to combine/fuse different data modalities in machine learning models
- Programming: Developing a multimodal approach for treatment outcome prediction
- Analysis: Evaluating the importance of each modality and their information overlap, with a focus on the role of language as an additional diagnostic indicator

References

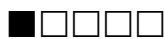
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Analysis



Programming



Literature



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