

Faculty of Informatics

Diplomarbeitspräsentation



Visual Active Learning for News Stream Classification

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Motivation and Problem Definition

Keeping up with continuous text streams, like daily news, costs a considerable amount of time. We developed an interactive classification interface for text streams that learns user-specific topics from the user's labels and

Current approaches that categorize unstructured text documents use pre-trained learning models for text classification. In the case of a continuous text stream, the usefulness is limited, as these models cannot adapt their

categories or learn new terminology.



Evaluation

We developed a **simulation** to compare the accuracy of visual active learning and classic active learning.

In a preliminary user study, we compared our visualization to a list-based interface for news retrieval and active learning.

Results

Through our evaluation, we could show that our visualization is a very effective user interface for active learning of streaming data.





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