

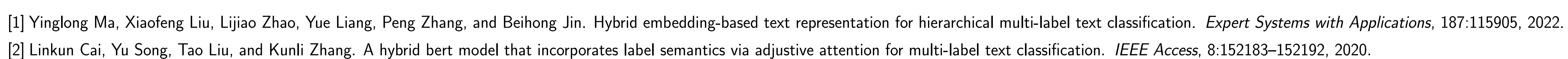
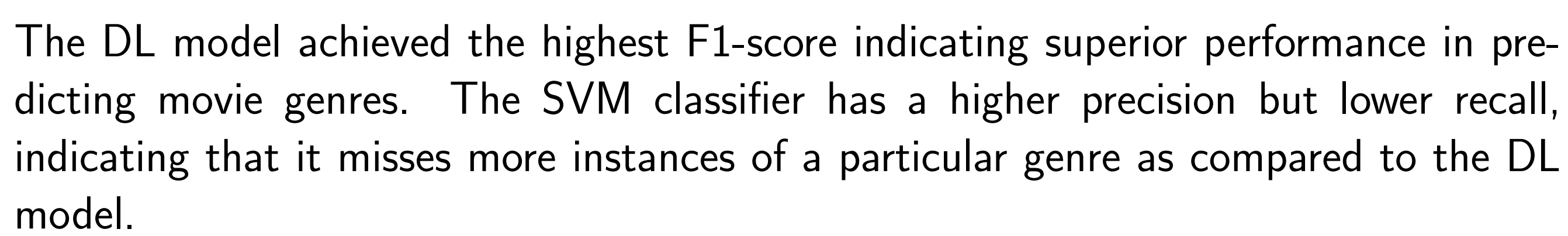
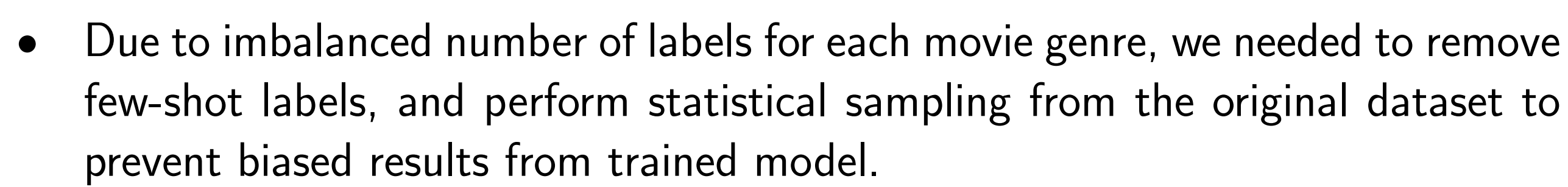
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Project Overview:

Movie genre classification plays a crucial role in content recommendation systems by providing personalized movie suggestions, boosting user engagement. It significantly improves search functionality, allowing for efficient genre-based filtering and accurate search results.

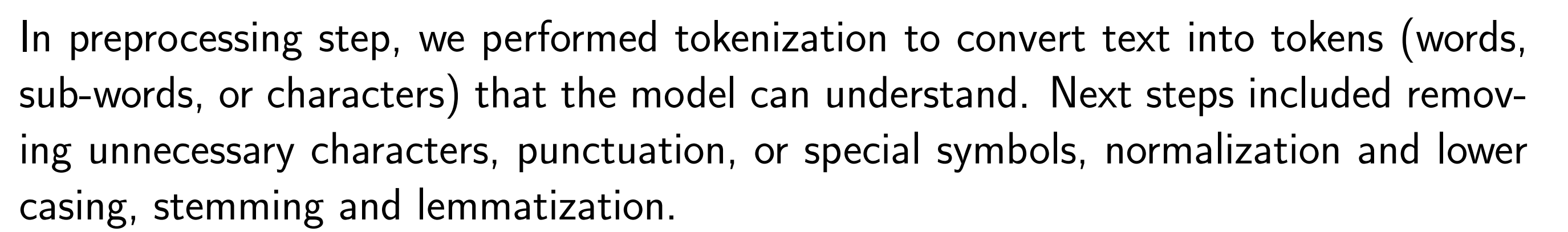
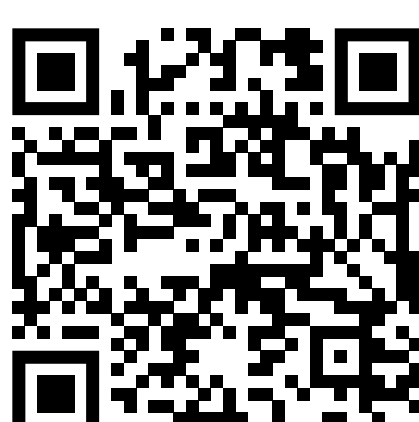
This also provides valuable insights into audience preferences and market trends. This information is crucial for content producers and marketers to understand which genres are gaining popularity, which helps in making informed decisions about future content creation and marketing strategies.

- 42,306 movie plot summaries extracted from IMDB and Wikipedia, including 362 different genres, metadata about the actors and the movies.

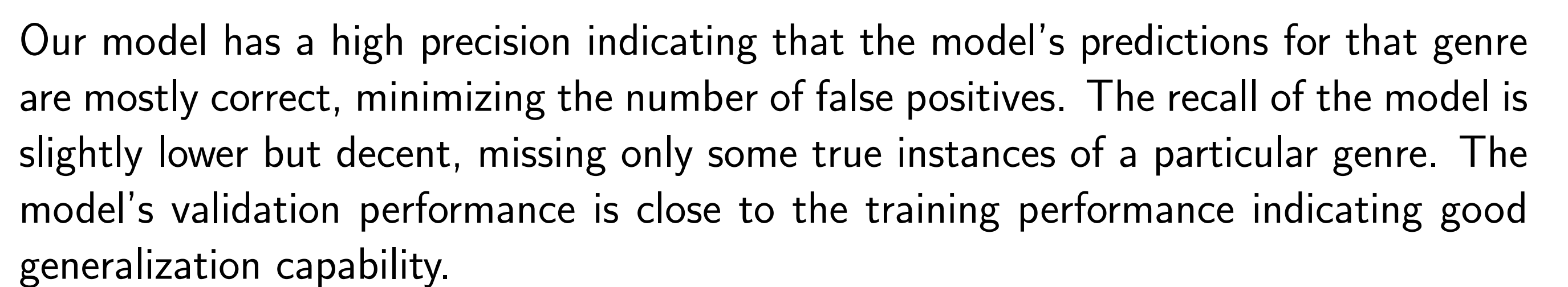
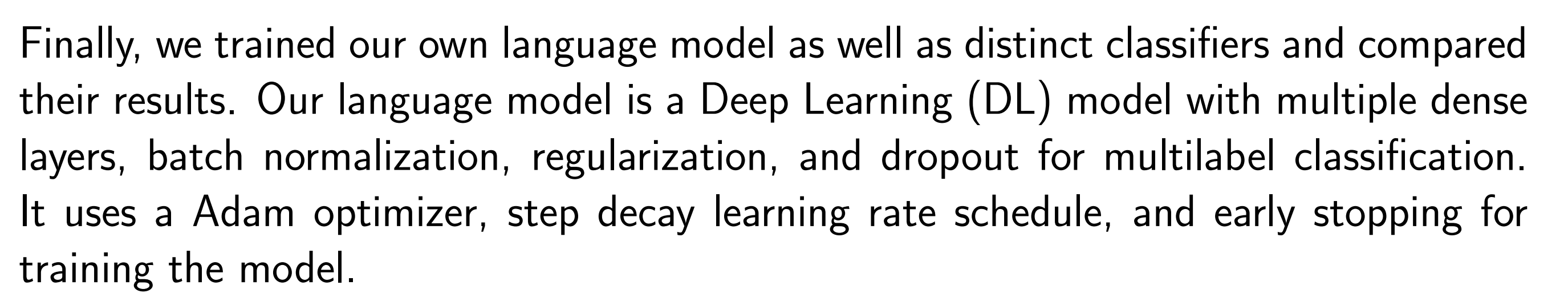


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Next, we performed vectorization to encode text data into numerical format to capture the contextual features of the plot summaries and make them suitable for machine learning models. We utilized TF-IDF with ngram size (1,3) to capture more relationships between words.



Future work includes experimenting with different feature set and hyper-parameter tuning to optimize the model performance. More advanced models could be explored to understand the sequence and context of texts.