



PREDICTING MOVIE GENRE USING PLOT SUMMARY

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Introduction

- ✓ In a world where everything is being digitalized and the Internet of Things is taking inroads to our day to day activities, it would be nice to have the entertainment industry to follow suit as well.
- ✓ Since movies are all over the internet and they are attracting a large portion of the population, it is with great importance that the information found about a movie which is mostly the plot summaries can be used to predict the genre of a movie.
- ✓ This will be achieved by text classification and machine learning techniques.

Technologies

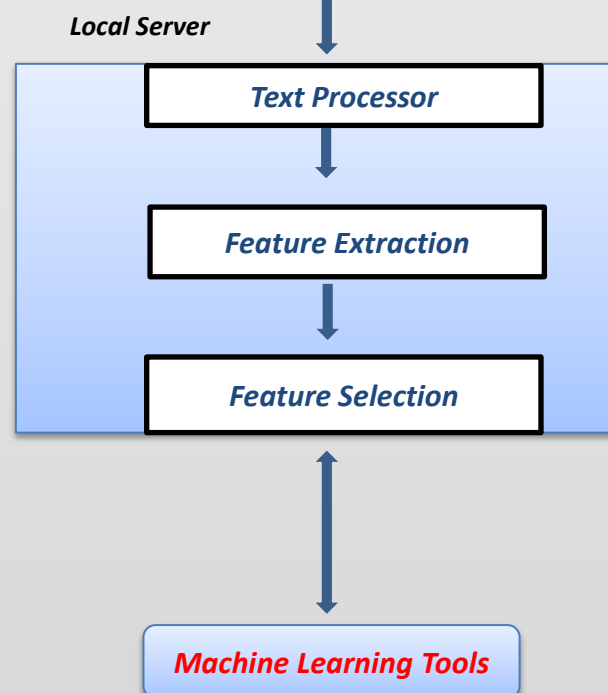


FRAMEWORK



Summary

- ✓ The movie plots and their genres will be taken from the movie database.
- ✓ The data will be kept in the genre database.
- ✓ Natural language processing consist of three stages which are Text processing, Feature Extraction and Feature Selection.
- ✓ The final step will be to use machine learning tools to classify the data.
- ✓ The related genre will the be displayed.
- ✓ The Programming language to be used will be Python because of its data science libraries.



Results

- ✓ More precise and accurate genres that are consistent with movie story lines.
- ✓ Giving a movie multiple genres using multi-label classification

Conclusions

The system will be a stepping stone to the movie fans in a way that they will safely choose a genre knowing very well that it matches the scripts of the movie.

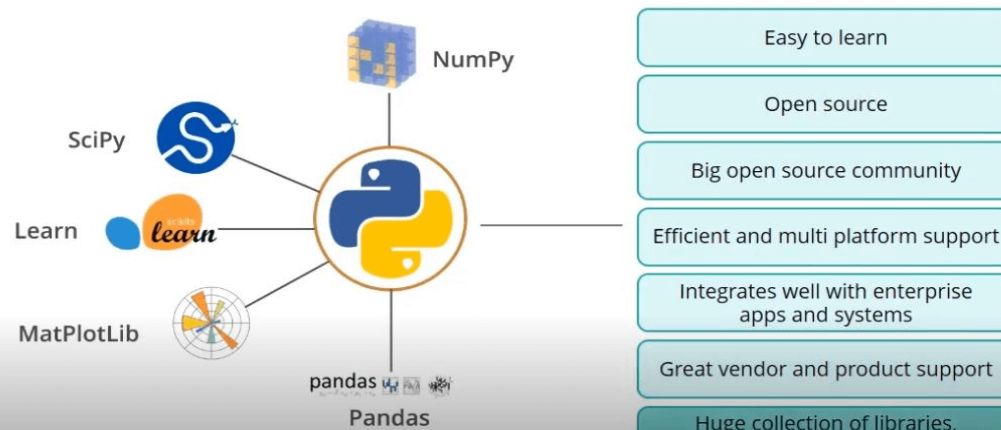
References

- ✓ Dive into multi-label classification. Kartik Nooney, (2018 June 7)
- ✓ Classify Movie Scripts by Genre with a MEMM using NLP-Based Features. Alex Blackstock *et al*, 2008

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Benefits of Python



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