

Natural Language Processing

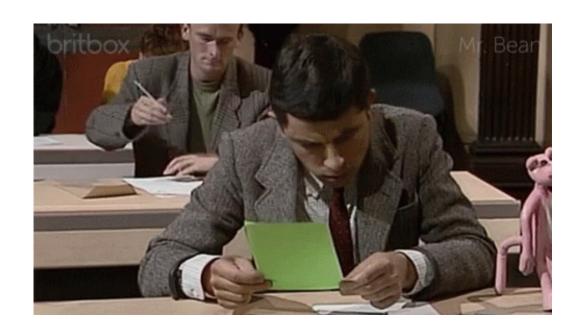
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Bachelor Student Project





Bachelor Students' Project



Hi

Hi, how can I help you?

Analyze the sentiment of "it was tremendous movie"

Cool! Which texhnique would you like to apply?

Logistic Regression

The result is negative.

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- 1. Train your classifiers on IMDB dataset
- 2. Then connect your classfier into the chatbot
- 3. Two days before the deadline, I will share 50 samples as test set with you to evaluate the perforance of classifier using evaluation metrics:

Precision

Recall

F1

Accuracy

. . .

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	The regular expression	Training on IMDB dataset	Naive Bayes	Logistic Regression	Neural Network	Evaluation	Additional features
Student1							
Student2							

Write a report, and send the file.



Some samples:

- Add spell-checker
- ❖ Add recommendation facility to the chatbot



Schedule for Summer Term 2023

23.5.2023	8	N-gram language model	Performance metric			
30.5.2023	9	Generative classifiers	Vector semantics (TF-IDF) and cos simlarity			
6.6.2023	Exam	Oral Exam Master				
13.6.2023	10	Vector semantics (TF-IDF) and cos simlarity	Logistic Regression with NLTK		Bachelor	
20.6.2023	Preperation for Exam	Group Work	Group Work			
27.6.2023	Preperation for Exam	Group Work	Group Work	Last day of lectures	only	
31.7.2023	Exam	Submission of term papers				
Legende:		(Lecture)	(Tutorial)	Exam		