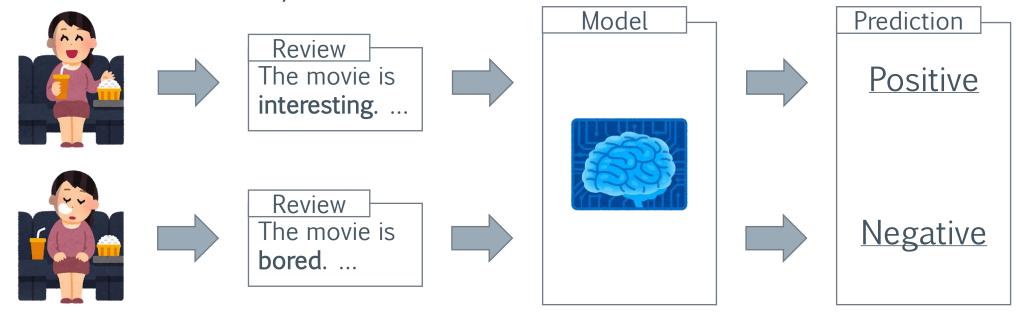
Comparison of classification accuracy between different pattern recognition methods

Purpose of Exercise

- > IMDB Datasets(Movie Review Datasets)
- > Classify **positive** review or **negative** review.
- > Train data 25000, Test data 25000

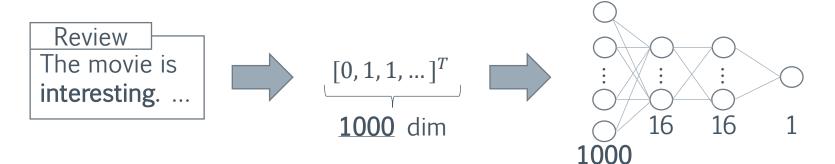


One of my seniors in the lab was conducting a similar study, and my research is related to NLP.

Approach

- > I used four pattern recognition methods
 - Deep Neural Network

Use multi-hot vector



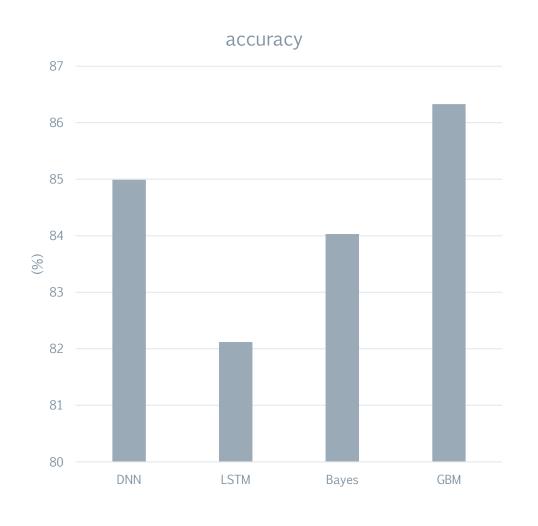
- LSTM
 - A special kind of RNN
- Naive Bayes Classifier
 - > Use Bernoulli distribution
- Light GBM
 - > Ensemble Learning

Use context information

Use distribution model

Use decision tree

Results and Conclusion



- Light GBM was the best method of the four methods.
- LSTM had the lowest accuracy, which was surprising.
- However, calculation time and study time are not taken into account in the evaluation.
- A more comprehensive evaluation should be conducted.