

B.Tech Computer Engineering 4th Year 8th Semester Examinations 2021

Natural Language Processing Lab - CEN 893

Max Time:1.5 hours

SET A

Note: The given dataset requires pre-processing before being used for the problem.

1. Implement the Multinomial Naïve Bayes text classification with La-Place smoothing and show the predicted class for the given new sentence. Use the given dataset A1.
2. Implement the Multinomial Naïve Bayes text classification with La-Place smoothing and show the predicted class for the given new sentence. Use the given dataset A2.
3. Implement the Bernoulli Naïve Bayes text classification with La-Place smoothing show the predicted class for the given new sentence. Use the given dataset A1.
4. Implement the Bernoulli Naïve Bayes text classification with La-Place smoothing show the predicted class for the given new sentence. Use the given dataset A2.
5. Generate the word vectors using the bigram probabilities and calculate the cosine similarity between two given words. Use the given Transcript A1.
6. Generate the bigram probability matrix and apply Shannon's Visualizations method. Use the given Transcript A2.