



DELHI PUBLIC SCHOOL FIROZABAD

Session– 2021-22

Subject- Artificial Intelligence

Class-X

Worksheet-2



Roll No. _____ Name _____ Date _____

A. Tick the correct answers:-

1. What do we call commonly used words in NLP?

- a. Vocabulary b. Stop Words c. Bag-of-words d. None of the above

2. Auto encoder is a:

- a. Unsupervised Neural Network b. Supervised Neural Network
c. Convolutional Neural Network d. None of the Above

3. What is the full form of PCA?

- a. Principal Component Analysis b. Probable Component Analysis
c. Principal Current Analysis d. Probable Current Analysis Ans.

4. Which of the following is not a Dimensionality Reduction technique?

- a. Feature Selection b. Matrix Factorization
c. Cosine Similarity d. Auto encoder

5. Which is the most important component of a Chatbot?

- a. Intent b. Utterance c. Entity d. All of the above

B. True or False:-

1. Computers don't communicate the way humans do, they communicate in Machine Language.
2. Spell checkers on our mobile phones is an application of NLP.
3. Customer service and experience are not a high priority for the success of a company.
4. Google Dialog flow is a development suite that helps in creating smart Voicebots.
5. Machines are unable to understand human languages unless it is trained to do so.

C. Fill in the Blanks:-

1. _____ is the interpretation and classification of emotions (positive, negative and neutral) within text data using NLP algorithms.
2. A _____ is an AI-powered software that can simulate a conversation with a human in any language it is trained on, through messaging applications, websites or mobile apps.
3. _____ is a development suite that helps in creating smart Chatbots.

4. The process of reducing inflection in words is known as _____.

5. Bag-of-Words (BOW) is an NLP algorithm that is used for extracting _____ from text data.

C. Answer the following:-

1. What is the Bag-of-Words algorithm? Where is it used?

2. What is the difference between Term Frequency and Inverse Data Frequency?

3. Why is NLTK commonly used in Python for implementing NLP?

4. What are the differences between Stemming and Lemmatization?

5. What are the ethical issues around NLP?
