**Questions on Chapter 1**

1. List examples of real world applications of NLP
2. Explain the following NLP tasks: language modelling, text classification, information extraction, information retrieval, conversational agent, text summarization, question answering, machine translation, and topic modelling.
3. What are the building blocks of language and their applications?
4. Why is NLP Challenging?
5. How NLP, ML, and DL are related?
6. Describe the heuristics-based NLP.
7. Explain briefly Naive Bayes, Support Vector Machine, Hidden Markov Model, And Conditional Random Fields approaches.
8. What is the difference between RNN and LSTM NN?
9. How CNN can be used for text processing?
10. Describe the concept transfer learning.
11. Give the architecture of autoencoder.
12. List the key reason that makes DL not suitable for all NLP tasks
13. Explain the flow of conversation agents.