

Workshop 13

Q&A Chatbots

Preparing the Environment (if not done)

1. Install keras
2. Install keras-preprocessing
3. Install tensorflow

Task 1

- Go through the given Jupyter Notebook.
- Explain what we are trying to do in the notebook step by step.
- Answer the following questions.
 - Suppose you want a chatbot with a more extensive vocabulary.
 - How to add more words to the vocabulary?
 - There are only 37 tokens (35 words + 2 punctuations) in the vocabulary.
 - What are the steps required after expanding the vocabulary?
- Submit your explanation on MS Teams by 1:30pm.

Task 2

- Modify the given notebook so the chatbot can handle stories and question in other tenses.
- Add a function so the chatbot can handle stories and questions with no whitespace preceding and/or following the punctuations.
- Here are sample stories and questions that your chatbot should be able to handle properly.
 - Jane left the school. James dropped John at the airport.
 - Is jane under the table?
 - Is John at the airport?