

WIIT 7850 Natural Language Processing

Week 10 Lab

Learning Objectives:

- Apply Python skills to build a functioning question-answerer chatbot.
- Apply presentation planning and preparation skills to create a demonstration video.

Background:

We have successfully built our first chatbot using the Jupyter Notebook during class. Your challenge is to change this chatbot to experience effects of changing the code.

Week 10 Lab Instructions:

1. Start with the jupyter notebook used for this week's class.
2. Modify the notebook as follows:
 - a. Use a **different source** of data and retrain your chatbot.
 - b. In the main while loop for the chatbot, **include at least two additional cases** to generate a reply when the user asks about irrelevant topics to your chosen new source.
 - i. HINT: you can use simple if-else clauses for this purpose.
 - c. Modify **at least two** of the hyperparameters to see if you can get the model to perform better.
 - i. **Describe**, in comments in your code, which hyperparameters were changed.
 - ii. **Describe**, in comments in your code, the impact the changes made on the final result.
3. In Blackboard, in Week 10, submit:
 - a. The executed jupyter notebook file for your lab.

Week 10 Lab Rubric, 20 Points:

	Emerging 0-15 points	Proficient (80%+) 16-17 points	Exemplary 18-20 points
Week 10 Lab	<p>A different source was not used.</p> <p>No additional cases were provided to generate a reply for irrelevant topics.</p> <p>No hyperparameters were modified, and/or comments were not provided in the code.</p>	<p>A different source was used.</p> <p>Only one additional case was provided.</p> <p>Only one hyperparameter was modified, and comments were provided in the code.</p>	<p>A different source was used.</p> <p>At least two additional cases were provided to generate a reply for irrelevant topics.</p> <p>At least two hyperparameters were modified, and comments were provided in the code.</p>