

"Additional Bonus Task (5%) (Optional):

Develop a generic code **from scratch** for each lecture concept, **avoiding the use of external libraries**.

1. Target is to build each algorithm that mentioned in each lecture from scratch without using any ready built libraries (4 %)
2. It is permitted only for the last part of lectures to use ready built libraries (**starting from Embeddings (ELMo and BERT)**) (1 %)

Important notes:

Due date	Week 14
Procedure	<ul style="list-style-type: none">• Bonus discussion will be with me personally (instructor: Dr. Mohamed Maher).• Each student tends to have this bonus task will send me an official mail containing:<ol style="list-style-type: none">1. Complete code.2. Complete PDF file describes the whole content of the presented code.• This mail should be at <u>Saturday</u> of week 14 and I will respond to this mail with the time of the discussion after reviewing all submitted files.• As a reminder, <u>the use of AI tools</u> to complete this project is strictly prohibited. Any student found violating this policy will receive <u>a zero</u> for the affected assignment and the final <u>course work</u>. This policy is in place to ensure that each student gains a comprehensive understanding of the subject matter through their own efforts and learning. Please adhere to this policy to maintain academic integrity and fair assessment.

Best regards
Dr. Mohamed Maher Ata