

# Programming Assignment - 3 [01/04/2022]

## CSL7340

### Instructions:

1. Evaluation will be done through viva where you have to demonstrate your chatbot live.
2. Total marks - 20 marks, Deadline:- 17-04-2022 05:00 PM,
3. ANY ONE MEMBER OF THE GROUP CAN SUBMIT AND TURNIN. No need for other people to submit/turn in.
4. All libraries and tools are allowed.
5. Submit a .zip file containing all the working codes (.py files and .pdf file). The zip file should be named in the format <RollNo1\_RollNo2\_RollNo3\_NLU\_A1>.zip.  
[Do not include model weights and data in the zip file]
6. Submit a .pdf report which should contain:
  - a. A detailed description of what all you have done,
  - b. A description of what else could be done to improve results - challenges faced
  - c. Links to the Google-Colab files (if any),
  - d. Clearly mention the contribution of each group member.
7. Copying from the Internet and/or your classmates is strictly prohibited. Any team found guilty will be awarded a suitable penalty as per IIT rules.

**Dataset:** KnowledgeNet (data description and dataset can be found here:- [link](#)), use train.json inside dataset as your source of data.

### Module - 1 (Chatbot):

#### Tasks

1. **Creation of knowledge base for chatbot:-** Select a subset of 100-150 company-related facts from KnowledgeNet (use facts/triplets with these relations: DATE\_FOUNDED (ORG-DATE), HEADQUARTERS (ORG-LOC), SUBSIDIARY\_OF (ORG-ORG), FOUNDED\_BY (ORG-PER), CEO (ORG-PER) to serve as a Knowledgebase for a chatbot.
2. **Building Chatbot:-** Build a chatbot that can answer questions from the knowledgebase
3. Report the process you have followed to build and train a chatbot, and also report 15 sample conversations with your chatbot.