**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]**

1. Submit a **.pdf** report which should contain:
   1. A detailed description of what all you have done,
   2. A description of what else could be done to improve results - challenges faced
   3. Links to the Google-Colab files (if any),
   4. Clearly mention the contribution of each group member.
2. **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](https://github.com/diffbot/knowledge-net)), 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.