**Chatbot using Knowledge Graph**

**Source Code Details:**

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| Serial No. | File Name | Type of Language | Type of File (or File Extension) | Functionality |
| 1 | DSAI\_Knowledge\_Graph.ipynb | Python | .ipynb  Implemented using OOP concepts | Used to creates knowledge graph from 'DSAI\_Wiki\_Sentences\_V2.csv' and just plots the entire knowledge graph created as well as graph based on relations like 'composed by', 'written by'. |
| 2 | DSAI\_Queries.py | Python | .py | Parses DSAI\_Knowledge\_Base.nt file and prints outputs in the console like 'topics for a given course', 'total number of topics' etc.. |
| 3 | DSAI\_Knowledge\_Base.py | Python | .py | Generates knowledge graph from DSAI\_Course\_Data, DSAI\_Student\_Data, DSAI\_University\_Data and populates DSAI\_Knowledge\_Base.nt file |
| 4 | DSAI\_Main.py | Python | .py  Implemented using OOP concepts | Used to run Command Line Interface chatbot that inputs from the DSAI\_Knowledge\_Base.nt file. |

**Run Instructions:**

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| --- | --- | --- | --- |
| Step Number | Run Command | Run Dependency | Run Instruction |
| 1 | Run ‘python DSAI\_Knowledge\_Base.py’ |  | This creates knowledge graph and store as DSAI\_Knowledge\_Base.nt  (Run only once) |
| 2 | Run ‘python DSAI\_Main.py’ |  | This runs Command line interface Chatbot |