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File - C:\Users\vigne\PycharmProjects\PythonProject\.venv\Data Parsing\data input.py
    from data_class import Data
  2 from loadingModule 2 import loadingAnimation
    # method that returns the question-type like 'what', 'when', where' etc...
    def printAllQuestionType(processed data):
        if len(processed data.get("QT")) == 1:
            return """ + processed data.get("QT"). getitem (0) + """
  8
        else:
  9
            result = "mix of "
 10
            for c in range(len(processed_data.get("QT")) - 1):
               result += """ + processed data.get("QT"). getitem (c) + "", "
 11
            result += "and "" + processed_data.get("QT").__getitem__(len(processed_data.get("QT")) - 1) + """
 12
 13
        return result
 14
 15 # method that returns any possible places that the user mentioned in their original statement ~ improves specific contextualization
    def printPossibleMentions(saved_input, list):
        result = ""
 17
        for places in list:
 18
 19
            if places.lower() in saved_input.lower():
                result += places + ", "
20
 21
        return result
 22
 23 # introductory instructions and terms/conditions
    print("QUESTION ANALYZER: \n1.) Enter a question that you might ask a Google Assistance, Alexa, Siri, Cortana, etc..."
        "\n2.) The system will process your response.\n3.) It will give you it's understanding of the question by categorizing it using basic Natural Language Processing (NLP)
    algorithm.\n")
 26 print("This is a first step taken to complete a part of 'robotics data interpretation' and will be built upon modularly.\n")
27 print("This model is still in BETA; some questions might not be recognizable by the system. More updates will be rolling out soon. [Version: 1.5]\n\n")
    user_input = input("Ask me anything: ").lower()
    data instance = Data()
 30 rowCategory = None
 31
 32 # loop helps the user continue asking more questions for system categorization
    while user input != "stop":
 33
 34
        saved input = user input
 35
        processed data = data instance.parsedData(data instance.stemWord(user input))
 36
 37
        # ensures there are no error, else, redirect the issue
 38
        if processed_data.get("I") != 'ERROR':
 39
            loadingAnimation()
 40
            for row in range(len(data_instance.possibleList)):
 41
               for column in range(len(data_instance.possibleList[row])):
 42
                   for a in range(len(processed data.get("I"))):
 43
                       if data_instance.possibleList[row][column] == processed_data.get("I").__getitem__(a):
 44
                           rowCategory = str(row)
 45
            print(f"\n\n\n| understand that you are trying to ask a question that starts with a {printAllQuestionType(processed_data)} and I am supposed to give a(n) ")
 46
 47
            # list of possible type of questions extracted from user input [non-exhaustive]
 48
            if rowCategory == "0":
 49
                print("concise and short answer for general information related to places, conditions, activities, person.")
 50
            elif rowCategory == "1":
 51
                print("personal/health based information regarding diet/lifestyle.")
52
            elif rowCategory == "2":
 53
                print("productivity tailored response for improving your health/work/performance efficiency.")
 54
            elif rowCategory == "3":
 55
                print("entertainment related answer that is tailored to improving your leisure/mood.")
            elif rowCategory == "4":
 56
                print("mathematical answer, which can either be short or informative, for a concept or calculation.")
 57
            elif rowCategory == "5":
 58
 59
                print("response that improves the your knowledge in crucial details regarding current events.")
 60
            elif rowCategory == "6":
 61
                print("advice to the you in the best manner possible that will give you better guidance.")
 62
            if (printPossibleMentions(saved_input, data_instance.specificPlaceList) != ""):
               print("You mentioned " + printPossibleMentions(saved_input, data_instance.specificPlaceList) + "meaning you want my responses to be personalized for that/those place(
 63
    s).")
            if (printPossibleMentions(saved input, data instance.specificPopCultureList) != ""):
 64
                print("You also mentioned Iconic References like " + printPossibleMentions(saved input, data instance.specificPopCultureList) + "therefore my answers should be refined
 65
     to that/those reference(s).")
            user_input = input("\nls my understanding right? Type 'Y' for Yes or 'N' for No: ")
 66
67
            print("Glad I am doing it right. Data has been noted!") if user_input == "Y" else input("In what way should I have interpreted the response: ")
68
            print("Thank you for your feedback!\n")
            user_input = input("\nAsk me anything (or type 'stop' to end): ").lower()
69
70
            user input = input("\nThis question is unrecognizable. Try again or type 'stop': ").lower()
71
```