AcadBot : A chatbot for all your academic queries

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Abstract

The academic department of IIIT-Delhi often complains of having so much burden of student queries. Some of the queries are so trivial that they can be answered by having a look at the resources available on the IIIT-Delhi official website under academics section. Through this project we have tried to automate this query resolution to help academic department lower their burden. We come up with a chatbot named **AcadBot** to help solve the queries of students related to any academic issue in IIIT-Delhi. This chatbot application if adopted can help the students solve their quries without having to wait for reply to that mail by the department. Also, it will help the academic department to get rid of their trivial qeries they receive. This application was created using Mulinomial Naive Bayes and count vectorizer . It is a Django based application

1 Introduction

We created a chatbot using NLP concepts like Multinomial Naive Bayes Classifier and Count vectors. This chatbot will be used for solving the academic queries of students.

2 Dataset

The dataset was created by collecting files that were present under the academic resources on the IIIT-Delhi website. A total of 10 classes or categories were formed by analysing what kind of queries can be asked by the students. These 10 categories are :

- General
- Academic Session and Calendar
- Admission
- Continuing in the program
- Courses and Credits
- Discliplinary Action
- Graduation requirements
- Power to modify
- Registration
- Teaching and Evaluation

After these categories, there are certain subcategories present inside each of the category mentioned above.

3 Model

We used a Multinomial Naive Bayes Algorithms to classify our data. We used two levels one the high level classification containing the broad categories, and on level 2 we considered the sub categories present in each of the category and classified each sentence/query asked into it's most probable category type using Naive Bayes Algorithm.

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4 References

- https://www.iiitd.ac.in/academics/resources