**VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, PUNE**

**COMPUTER ENGINEERING DEPARTMENT**

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**Synopsis**



**Group number:**

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**Title : “Question’s for Institute : Anytime Anywhere”**

**Objective :**

The project aims to reduce the burden on the head of admissions, and potentially other users, by developing a convincing chatbot.To make chatbot intelligent for institutes and support students by answering their questions and solve their problems regarding college any issues.

**Abstract :**

In the modern Era of technology, Chatbots is the big thing in the era of conversational

services. Chatbots is a virtual person who can effectively talk to any human being using

interactive textual skills. A chatbot is based on machine learning and Artificial Intelligence (AI) concepts and due to dynamic nature. The communication of potential students with a university department is performed manually and it is a very time consuming procedure. The opportunity to communicate with on a one-to-one basis is highly valued. However with many hundreds of applications each year, one-to-one conversations are not feasible in most cases. The communication will require a member of academic staff to expend several hours to find suitable answers and contact each student. It would be useful to reduce his costs and time. The project aims to reduce the burden on the head of admissions, and potentially other users, by developing a convincing chatbot. A suitable algorithm must be devised to search through the set of data and find a potential answer.

**Briefs about Contents:**

1. **Introduction :**

Admissions process works properly as it is, it is very difficult and time consuming to contact a member of staff of the university.The aim of this project is to contribute to the solution of the problem of direct communication between applicants and the university.To develop a web interface which aims to give the ability to potential students and their families to submit questions in a chatbot and get convincing replies. The web system can be hosted on any computer that supports an operating system .

1. **Technical Details :**

The smart chatbot is aimed at developing A Student bot project using artificial algorithms that analyzes user’s queries and understand user’s message. This System is a web application which provides answer to the query of the student. Students just have to query through the bot which is used for chatting. Students can chat using any format there is no specific format the user has to follow. TheSystem uses built in artificial intelligence to answer the query. The answers are appropriate what the user queries.

**A. Natural language processing:**

Natural Language Processing is used for text classification and processing.

Under NLP we are using pattern matching algorithm, in pattern matching algorithm the entered question and the question stored in database are compared to check weather they are same or not.

**B.Latent Dirichlet Allocation :**

Latent Dirichlet Allocation [LDA] is used for topic modelling that

generates topics based on word frequency and is the cluster of

similar kind of words.

1. **Working :**

This project is aimed at developing A Student bot project using artificial algorithms that analyzes user’s queries and understand user’s message. This System is a web application which provides answer to the query of the student. Students just have to query through the bot which is used for chatting. Students can chat using any format there is no specific format the user has to follow. The System uses built in artificial intelligence to answer the query. The answers are appropriate what the user queries. A Student bot project using artificial algorithms that analyzes user’s queries and understand user’s message. This System is a web application which provides answer to the query of the student. It uses AI and ML for making system intelligent. It also uses NLP for processing the text information. It uses LDA algorithm for text processing and also uses pattern matching algorithm.

1. **Applications:**

chatbot for college.

chatbot for industries.

**References/Bibliography:**

1.2017 IEEE Region 10 Humanitarian Technology Conference (R10-HTC) 21 - 23 Dec 2017,Dhaka, Bangladesh.

2.Bhavika R. Ranoliya, Nidhi Raghuwanshiand Sanjay Singhy.Department of Information and Communication Technology Manipal Institute of Technology, Manipal University, Karnataka-576104, India.

3.Negnevitsky, Michael, 2005. Artificial Intelligence: A guide to intelligent systems, 2nd ed.