



**SMART INDIA
HACKATHON
2022**

Problem Statement Details

Organization Name: All India Council for Technical Education (AICTE)

PS Code: DR702

Problem Statement Title: AI based Chatbot to answer FAQs

Team Name: Prativachan (प्रतिवचन)

Team Leader Name: Harshil Khamar

Institute Code: C212

Institute Name: L.D. College Of Engineering

Theme Name: Smart Automation

Idea/Approach Details

Describe your idea/Solution/Prototype here:

Source of problem :

- Web visitors find it difficult to **search information** in that particular website, here comes the role of **AI assistant**
- For any organization it is **costlier** to build AI-assistant for their website and hire some developers for the same

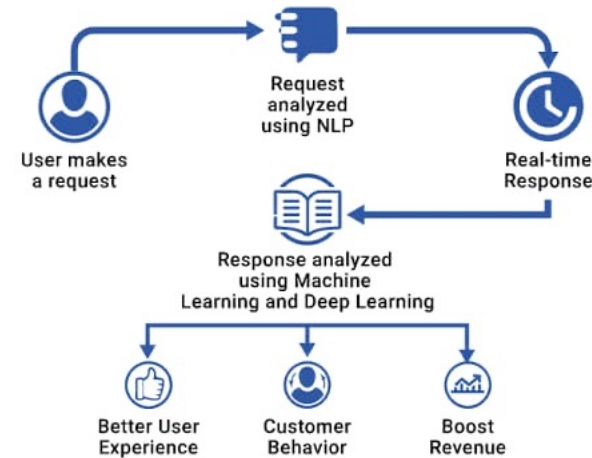
Idea :

- In this developing AI industry, **AI Assistant** plays a role of new human
- **Yo-Bot** is a **platform** where you will be able to create **AI assistant** for your **Website** for answering FAQs in an easy manner
- **Yo-Bot** is a **no-code** and a **SaaS** (Software as a Service) platform
- The algorithm is so strong that it will generate **FAQs with responses** by it's **own** by providing data as an input in different ways

Critical components :

1. Input source to generate FAQs : Source can be of any form; like **link** with access to data for scraping, **pdf**, **csv**, **text**, etc. Input source of normal FAQ pairs of question and answer : Sort FAQs for training
2. Paraphrasing of FAQs : The **NLP** technique will paraphrase one FAQ into 10+ different FAQs with powerful neural network **T5 Transformer**
3. Train FAQs for Ai-assistant : **Training** is done with NLP algorithm where FAQs are trained for AI-assistant for correct **mapping** of questions with proper answer
4. AI-assistant : AI-assistant has very **User friendly interface** which can be accessed with JavaScript

Working of Ai Assistant



Our Technology stack :

- ❖ **AI /ML Libraries :**
 - T5 Transformer, Pytorch
 - Tensorflow, Keras
- ❖ **Web Scraping :**
 - BeautifulSoup
- ❖ **Web Technology :**
 - Frontend – Bootstrap5, jQuery & Ajax
 - Backend - Django
- ❖ **Database :**
 - Database- MySQL

Question Generator

[View Questions](#)[Yo-Bot](#)

Question-Answer Generator

Question-AnswerOnly AnswersParagraph

What is General Guidelines for All FDC Schemes SCHEME?
General Guidelines for All FDC Schemes
General Guidelines Applicable to all Faculty Development Schemes of AICTE.
For More Information : <https://www.aicte-india.org/sites/default/files/guidelines%20upload%20website.pdf>

What is AICTE STTP-SFURTI SCHEME?
AICTE STTP-SFURTI
STTP-SFURTI intends to conduct faculty and student trainings through financial assistance from AICTE to enable faculty members and students in the field of technical education to introspect and learn techniques that can help prepare faculty and students to impart there research work in the development of small-

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AI-assistant

Question-Generation

YO BOT

Hello I'm Yo Bot How can I help you?

What are the General Guidelines for all FDC Schemes?

Hi!

AICTE – ISTE Orientation/ Refresher Programme
The objective is to conduct AICTE-ISTE Induction/ Refresher Programmes for the teaching faculty working in technical institutions. Total 100 Refresher programme & 50 Orientation programme with the funding of Rs. 300000 per programme.
For More Information - [Click Here For More](#)

Questions & Answer

Questions

What are the General Guidelines for all FDC Schemes?

What are guidelines for all fdc schemes?

What is the General Guidelines of the FDC Scheme?

What are general guidelines for FDC Scheme?

What are the general guidelines for all FDC Schemes?

What are general guidelines for Selected FDC Schemes?

What are the general guidelines for FDC Schemes?

What are the rules and general guidance for FDC Schemes?

What is General guidelines for FDC Schemes? What are the concepts?

What are the general guidelines of all the FDC schemes Schemes?

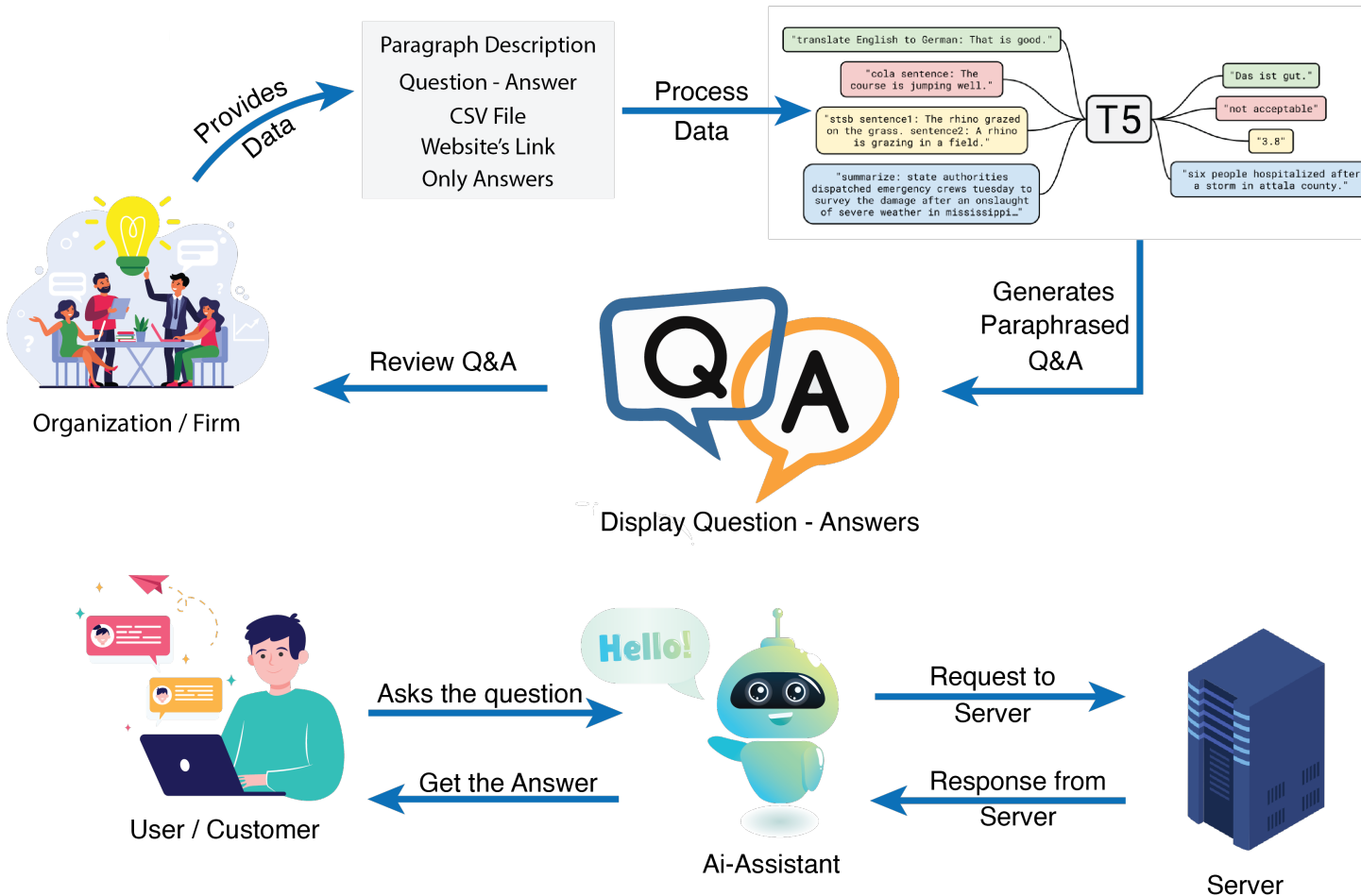
Answer

General Guidelines for All FDC Schemes
General Guidelines Applicable to all Faculty Development Schemes of AICTE.
For More Information : [Click Here For More](#)

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Idea/Approach Details

Workflow of Yo-Bot Platform :



Use Cases :

- Banking websites : To answer user queries
- E-commerce websites : To know the product information
- University websites : To know where to find required information
- Government websites : To know about new schemes and find section in site

Our Dependencies :

- Needs Website's **SSL Access** while we gather information from it
- Model will be trained by different types of data (i.e. Structured, Semi structured and unstructured) so, pre processed data will lead to higher accuracy.

Our Showstopper :

- Generate FAQs and provide AI Assistant from **website's URL**
- **Reduces user query calls** for organization/firm
- Any organization can use this platform to build AI-assistant for their website through our **API**

Team Member Details

Team Leader Name: Harshil A Khamar

Branch : Btech

Stream : CSE

Year : III

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Branch : Btech

Stream : CSE

Year : III

Team Member 2 Name: Rishikumar R Patel

Branch : Btech

Stream : CSE

Year : III

Team Member 3 Name: Shreya Parmar

Branch : Btech

Stream : CSE

Year : IV

Team Member 4 Name: Rutvikumar S Patel

Branch : Btech

Stream : CSE

Year : III

Team Member 5 Name: Devashri Narendra Chauhan

Branch : Btech

Stream : CSE

Year : III

Team Mentor 1 Name: Prof. Hetal Joshiyara

Category : Academic

Expertise : AI, ML, Blockchain, Big Data

Domain Experience (in years): 17

Team Mentor 2 Name: Prof. Parth Dave

Category : Academic

Expertise : AI, ML, Network Security, Microprocessor

Domain Experience (in years): 7