

name	email	faculty_id	department	profession
sabarish	sabarish.it22@bitsathy.ac.in	237	IT	student
sriram	sriram.it22@bitsathy.ac.in	262	IT	student



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University - Chennai • Approved by AICTE • Accredited by NAAC with 'A+' Grade

SATHYAMANGALAM - 638401 ERODE DISTRICT TAMILNADU INDIA

Ph: 04295-226000/221289 Fax: 04295-226666 Email: stayahead@bitsathy.ac.in Web: www.bitsathy.ac.in

Semester End Examinations NOV 2024 - Results

Register No: **7376222IT237**

Name: **SABARISH R**

Batch: **2022 - 2026**

Degree & Branch: **B.Tech. INFORMATION TECHNOLOGY**



S.No.	Course Code	Course Title	Semester	Grade	Category	Result
1	22IT501	PRINCIPLES OF COMMUNICATION	5	B+	Regular	PASS
2	22IT502	COMPUTER NETWORKS	5	U	Regular	RA
3	22IT503	INFORMATION CODING TECHNIQUES	5	B+	Regular	PASS
4	22IT504	INTERNET OF THINGS	5	B+	Regular	PASS
5	22IT007	AGILE SOFTWARE DEVELOPMENT	5	B+	Regular	PASS
6	22IT507	MINI PROJECT I	5	A+	Regular	PASS
7	22OME02	INDUSTRIAL PROCESS ENGINEERING	5	A	Regular	PASS



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S.No.	Course Code	Course Title	Semester	Grade	Category	Result
8	22AI0XG	FULL STACK DEVELOPMENT USING ADAPTIVE AI	5	C	Regular	PASS

Disclaimer: The published is provisional only. We are not responsible for any inadvertent error that may have crept in the data / results being published. The Final Grade Sheet issued by the Institute should only be considered authentic.

devtown



CAMPUS AMBASSADOR CERTIFICATION

THIS CERTIFICATE IS PRESENTED TO

SABARISH R

in recognition of their dedication and hard work as a

DevTown Campus Ambassador (Intern)

We wish them well in their future endeavors.

Ashish Modi.

Ashish Modi
Co-Founder

Scan the QR code to verify



or visit: <https://cert.devtown.in/verify/Zed1cx>

15 Dec 2024

DATE



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TECHNICAL APPROVAL COMMITTEE

GUIDE APPROVAL FORM

Date: 29 / 01 / 2025

Starting Date of Work				
Sl. No.	Student Name	Reg. No.	Role	Signature
1	Sabarish R	7376222IT237	Team Leader	
2	Naveenkumar P	7376222IT210	Team Member	
3	Mugundhan K V	7376222IT203	Team Member	
4	Sriram S	7376222IT260	Team Member	
5			Team Member	
Applying for the work:		Product (<i>Product must be of commercialized quality</i>)		
Title of Work		BIT Voice Assistant and Chatter Bot		

(To be Filled by Faculty Guide)

No. of students: 4

I acknowledge that I will act as a faculty in charge of the aforementioned students and guide them to complete the work by adopting the guidelines provided.

Lab Name:

(In case of Faculty belonging to any special lab)

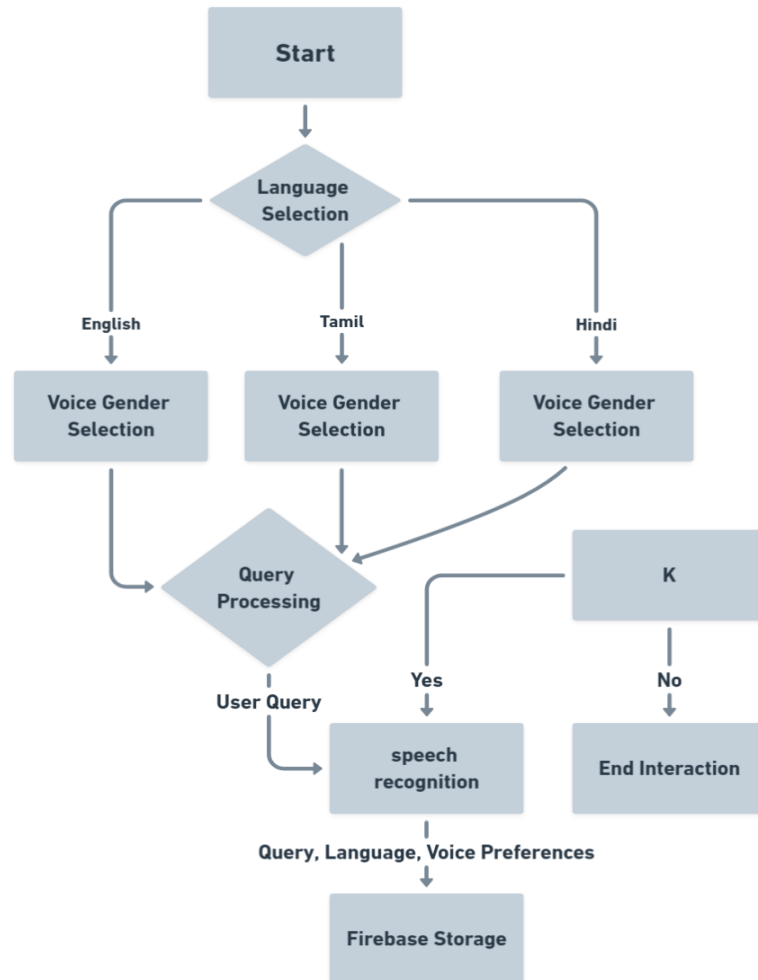
Name of the Faculty Guide:

Signature of the Faculty Guide with date*

**Any unfilled details will lead to rejection of the submission*

Idea/Approach Details

Add process flow chart or simulated image of prototype or any relevant image related to your idea



Made with Whimsical

Describe your Idea (Problem Statement) and Proposed Solution

The project aims to develop an interactive voice assistant system that uses speech recognition, natural language processing, and sentiment analysis to respond to user queries dynamically. It supports multilingual interactions (English, Tamil, and Hindi) and provides personalized text-to-speech responses based on the user's selected voice preferences. The system also incorporates Firebase for storing user queries and their preferences for future reference. The application is designed to run through a Flask web interface, enabling seamless voice interactions and data management.

Describe the features / functions of the proposed work here

The voice assistant supports English, Tamil, and Hindi with customizable male or female voices. It analyzes sentiment to provide engaging responses and uses natural language processing to understand and respond contextually. Queries are matched with predefined patterns or handled with default replies. User interactions are securely stored in Firebase, and the assistant is accessible via a Flask-based web interface.

Methodology / Algorithm / Process

The methodology begins with initializing Firebase for storing user interactions and configuring language processing tools like spaCy and TextBlob. Users select a language and voice preference, which are captured using speech recognition and stored. The assistant processes user queries using natural language processing, performs sentiment analysis, and matches queries with predefined patterns for responses. If no match is found, a default response is generated. The entire flow is managed through a Flask web interface, ensuring seamless voice interaction and query handling.

Signature of Faculty Guide :

Name of the Faculty Guide :

**Any unfilled details will lead to rejection of the submission*