

# Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:  
Ministry of Jal Shakti

PS Code: SIH1290

Problem Statement Title: Development of AI, ML and Chat boat-powered Interactive Robot Mascot (Chacha Chaudhary) and digital avatar to strengthen the river people connect component of Namami Gange.

Team Name: The Aguamentis

Team Leader Name: Deekshita Athreya

Institute Code (AISHE): U-0146

Institute Name: Institute of Technology, Nirma University

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Theme Name: Smart Education

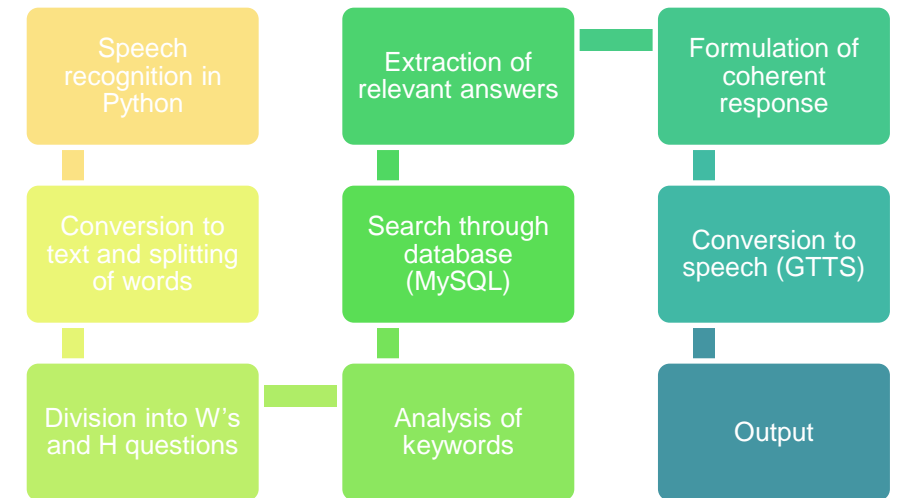
# Idea/Approach Details

## Main idea and solution:

- The main aim of the project is to imbibe in people a connection with nature and strengthen the ideology of national river rejuvenation.
- We aim to achieve this by constructing a 3D model of the official Mascot, 'Chacha Choudhary' to give a face to the campaign. Our interactive chatbot would be voice based and have the ability to answer a variety of questions regarding the project .
- Apart from this, we plan to add some additional recreative features including creation of user avatar and the opportunity to listen to the history and evolution of the river.



## Describe your Technology stack here:



# Idea/Approach Details

## Use Cases :

- ❑ Installation of interactive chatbot in the Ganga Avalokan Museum inaugurated by Govt. of India at Haridwar, Uttarakhand
- ❑ Holographic display of the mascot in schools and public places.
- ❑ Animations promoting the Namami Gange project can be created using the 3d model. Apart from this, the mascot can be combined with banners promoting the venture to produce 3d printed souvenirs.
- ❑ A text based version of the same project can be integrated with the official Namami Gange website.

## Dependencies:

- ❑ The performance of the chatbot would depend on the user accent, pronunciation and the accuracy of the Google Text to Speech algorithm.

## Show Stoppers:

- ❑ The chatbot would be able to function on varying input sentence formations and would not depend on the exact word structure.
- ❑ Customised user avatar wearing Namami Gange tshirt.
- ❑ Chatbot would have the ability to explain the geographical distribution of the Ganges, narrate the story of its origin and recite shlokas to glorify its spiritual aspect.

# Team Member Details

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## Team Leader Name: Deekshita Athreya

Branch : Btech

Stream : CSE

Year: II

## Team Member 1 Name: Vashita Darji

Branch : Btech

Stream : CSE

Year: II

## Team Member 2 Name: Ansh Bhavsar

Branch : Btech

Stream : CSE

Year: II

## Team Member 3 Name: Sezan Agavan

Branch : Btech

Stream : CSE

Year: II

## Team Member 4 Name: Abhi Patel

Branch : Btech

Stream : CSE

Year: II

## Team Member 5 Name: Ritu Raj

Branch : Btech

Stream : EE

Year: II

## Team Mentor 1 Name: Dr. Mohd Zuhair

Category : Academic

Expertise : Data Aanalysis

Domain Experience (in years): 5

## Team Mentor 2 Name: Ajaykumar Patel

Category : Academic

Expertise : Networks, Python

Domain Experience (in years): 12