School Of Computer Science
University Of Petroleum and Energy Studies
P.O. Bidholi, Via-Prem Nagar DEHRADUN-248007

Bachelors of Technology in Computer Science & Engineering

Issue Date: August 27, 22

Minor ☐ Major ☑

Project Title	Saksham – AI Powered Communication Solution for Disabled	Mentor Name	Project Number Bikram Pratim Bhuyan

S. No.	Roll Number	Branch	Name	Role	Signature
1	R177219194	B. Tech. CSE AI & ML B-3 Sem-VI	Utkarsh Gupta	Developer & Team Leader	Utkarsh
2	R177219206	B. Tech. CSE AI & ML B-6 Sem-VI	Aradhya Singh	Developer & Version Control	ASingh
3	R177219207	B. Tech. CSE AI & ML B-6 Sem-VI	Tanu Sharma	Developer & Documentation	Tanu

______________________________ ______________________________

Project Mentor	Head Of Department

Date	Title Approval	Synopsis	Mid-Term	End-Term	Progress Report	Total Marks	Project Status	
							Authenticity	Yes/ No
R.No	Timly Submission	Marks	MARKS	MARKS	MARKS	MARKS	Satisfactory	Yes/ No

Activity Coordinator

Synopsis Evaluation

Rollnumber		30 Marks						30 Marks							40 Marks	
		Reviewer1	Reviewer2	Reviewer3	Reviewer4	Reviewer5		Body Language	Dress Code	Communication Skill	Presentation Skill	Analytical Skill	Team Spirit		PPT	Report
	VIVA						FEEDBACK	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	Documents		
								1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5			
								1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5			
								1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5			

Panel Remark					
	Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Reviewer 5

Mid- Term Evaluation

Rollnumber		30 Marks						30 Marks							40 Marks	
		Reviewer1	Reviewer2	Reviewer3	Reviewer4	Reviewer5		Body Language	Dress Code	Communication Skill	Presentation Skill	Analytical Skill	Team Spirit		PPT	Report
	VIVA						FEEDBACK	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	Documents		
								1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5			
								1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5			
								1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5			

Panel Remark					
	Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Reviewer 5

End-Term Evaluation

Rollnumber		30 Marks						30 Marks							40 Marks	
		Reviewer1	Reviewer2	Reviewer3	Reviewer4	Reviewer5		Body Language	Dress Code	Communication Skill	Presentation Skill	Analytical Skill	Team Spirit		PPT	Report
	VIVA						FEEDBACK	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	Documents		
								1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5			
								1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5			
								1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5	1|2|3|4|5			

Panel Remark					
	Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Reviewer 5

UPES
UNIVERSITY WITH A PURPOSE

School Of Computer Science
University Of Petroleum and Energy Studies
P.O. Bidholi, Via-Prem Nagar DEHRADUN-248007

Bachelors of Technolgy in Computer Science Engineering

Minor ☐ Major ☑

Project Title	Saksham – AI Powered Communication Solution for Disabled	Mentor Name	Bikram Pratim Bhuyan

Abstract

Single point solution for communication gap between blind, deaf, mute and normal population. Application is able to convert sign language, voice, braille & text to each other which enables almost everyone to be able to communicate with anyone. The sign language recognition will be achieved through computer vision, voice recognition will be achieved by DNN, braille will be achieved by a sophisticated wireless hardware.

Objective

The objective is to develop remote communication software accessible to normal, blind, dumb and deaf people for interaction. Thereafter, construct hardware i.e., an interactive, wireless refreshable "Braille" device that would be connected to the software to facilitate communication for blind people.

Methodology

First, we will be developing all the AI models, Speech recognition and Sign Language recognition. Further the hardware for braille will be developed and at last the User interface will be developed.

Progress 1

Mentor Remark

	Marks	10	10	10	10	10	10	10	10	10	10
	Rollno/Marks(10)	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Synopsis	Mid-term	End-Term
	Date/Mentor Signature										

Progress 2

Mentor Remark

	Marks	10	10	10	10	10	10	10	10	10	10
	Rollno	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Synopsis	Mid-term	End-Term
	Date/Mentor Signature										

Guideline: 1) A project group can be of maximum 4 members and no alteration in the group member will be entertained later.
Guideline: 2) Methodology should have following steps Step1: Literature Review; Step2: Identification of Requirement (Type of Data source, Amount of Data, & Format of Data); Step3: Identification of Algorithm; Step 4: Comparative study; Step5: Design and Development of System/Architecture; Step 6: Implementation; Step7: Results **Guideline:3)** Student should upload softcopies of all the documents (reports and power point presentations) in "Project Directory", 24 hrs prior to evaluation. **Guideline:4)** Panel member will give feedback to individual on the scale of 1 to 5 and this scale will change for defaulter i.e., 1 to 3 scale.

1: Poor 2: Average 3: Good 4: Excellent 5: Outstanding