

#### A MINI PROJECT REPORT ON

**SPEECH RECOGNITION SYSYTEM USING GOOGLE API**

Submitted in the partial fulfillment of the requirements for the award of

BACHELOR

OF

INFORMATION TECHNOLOGY

SUBMITTED BY

**PUNNA SAI GANESH VANJARAPU BHANUCHARAN BELLAMKONDA RAGHU**

#### 21BK1A1298 21BK1A12C3 22BK5A1203

**Under the** **guidance of**

**Dr. K. LITTLE FLOWER, PhD**

**Associate Professor**

**DEPARTMENT OF CSE**



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**St. Peter’s Engineering College (UGC Autonomous)**

**Approved by AICTE, New Delhi, Accredited by NBA and NAAC with ‘A’ Grade,**

**Affiliated to JNTU, Hyderabad, Telangana**

# 2021-2025



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

# CERTIFICATE

This is to certify that a Mini Project entitled **“SPEECH RECOGNITION SYSTEM USING GOOGLE API”** is carried out by **PUNNA SAI GANESH (21BK1A1298)**, **VANJARAPU BHANU CHARAN (21BK1A12C3)**, **BELLAMKONDA RAGHU (22BK5A1203)**, in partial fulfillment for the award of the degree of **BACHELOR OF INFORMATION TECHNOLOGY** is a record of Bonafide work done by her/him under my supervision during the academic year 2024– 2025.

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| **INTERNAL GUIDE**  **Dr. K. Little Flower, PhD**  **Associate Professor**  Department of CSE  St. Peter’s Engineering College, Hyderabad | **HEAD OF THE DEPARTMENT**  Department of CSE  St. Peters Engineering College, Hyderabad |
| **PROJECT COORDINATOR**  **Mr. A. Senthil Murugan, M.E., (PhD)**  **Assistant Professor** Department of CSE  St. Peters Engineering College, Hyderabad | **EXTERNAL EXAMINER** |



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**ACKNOWLEDGEMENT**

We sincerely express our deep sense of gratitude to **Dr. K. LITTLE FLOWER,** for her valuable guidance, encouragement and cooperation during all phases of the project.

We are greatly indebted to our Project Coordinator **Mr. A. SENTHIL MURUGAN,** for providing valuable advice, constructive suggestions and encouragement without whom it would not been possible to complete this project.

It is a great opportunity to render our sincere thanks to Head of the Department, Computer Science and Engineering for her timely guidance and highly interactive attitude which helped us a lot in successful execution of the Project.

We are extremely thankful to our Principal **Dr. K. SREE LATHA,** who stood as an inspiration behind this project and heartfelt for her endorsement and valuable suggestions.

We respect and thank our secretary **Sri. T. V. REDDY,** for providing us an opportunity to do the project work at **St. PETERS ENGINEERING COLLEGE** and we are extremely thankful to him for providing such a nice support and guidance which made us to complete the project.

We also acknowledge with a deep sense of reverence, our gratitude towards our parents, who have always supported us morally as well as economically. We also express gratitude to all our friends who have directly or indirectly helped us to complete this project work. We hope that we can build upon the experience and knowledge that we have gained and make a valuable contribution towards the growth of the society in coming future.

PUNNA SAI GANESH (21BK1A1298)

VANJARAPU BHANU CHARAN (21BK1A12C3)

BELLAMKONDA RAGHU (22BK5A1203)



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**INSTITUTE VISION**

To be a renowned Educational Institution that moulds Students into Skilled Professionals fostering Technological Development, Research and Entrepreneurship meeting the societal needs.

**INSTITUTE MISSION**

**IM1:** Making students knowledgeable in the field of core and applied areas of Engineering to innovate Technological solutions to the problems in the Society.

**IM2:** Training the Students to impart the skills in cutting edge technologies, with the help of relevant stake holders.

**IM3:** Fostering conducive ambience that inculcates research attitude, identifying promising fields for entrepreneurship with ethical, moral and social responsibilities.



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### DEPARTMENT VISION

To be a vibrant nodal center for Computer Science Engineering Education, Research that make the students to contribute to technologies for IT, IT-Enabled Services; to involve in innovative research on thrust areas of industry and academia; to establish start-ups supporting major players in the industry.

#### DEPARTMENT MISSION

**DM1:** Emphasize project based learning by employing the state-of art technologies, algorithms in software development for the problems in inter-disciplinary avenues.

**DM2:** Involve stakeholders to make the students industry ready with training in skill-oriented computer application software.

**DM3:** Facilitate to learn the theoretical nuances of Computer Science, Computer Engineering courses and motivate to carry out research in both core and applied areas of CSE.



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**PROGRAM EDUCATIONAL OBJECTIVES (PEOs)**

**PEO1:** Graduates shall involve in research & development activities in industry and government arenas to conceive useful products for the society.

**PEO2:** Graduates shall be entrepreneurs contributing to national development in the fields of Computer Science based technologies.

**PEO3:** Graduates shall be team leaders working for software development, maintenance in the fields of software industry and government agencies.



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**PROGRAM OUTCOMES (POs)**

###### Engineering Graduates will be able to:

**1: ENGINEERING KNOWLEDGE:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**2: PROBLEM ANALYSIS:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using the first principles of mathematics, natural sciences, and engineering sciences.

**3: DESIGN/DEVELOPMENT OF SOLUTIONS:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations.

**4: CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS:** Use research-based

knowledge and research methods including design of experiments, analysis, interpretation of data, and synthesis of the information to provide valid conclusions.

**5: MODERN TOOL USAGE:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**6: THE ENGINEER AND SOCIETY:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to the professional engineering practice

**7: ENVIRONMENT AND SUSTAINABILITY:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**8****: ETHICS:** Apply ethical principles and commit to professional ethics and, responsibilities and norms of the engineering practice.

**9: INDIVIDUAL AND TEAM WORK:** Function effectively as an individual, and as a member or leader in diverse teams, and multidisciplinary settings.

**10: COMMUNICATION:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and draft effective reports and design documentation, make an effective presentation, give, and receive clear instructions.

**11: PROJECT MANAGEMENT AND FINANCE:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s work, as a member and leader in a team, to manage projects and in a multidisciplinary environment.

**12: LIFE-LONG LEARNING:** Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadcast context of technological changes.



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**PROGRAM SPECIFIC OBJECTIVES (PSO’S)**

###### PSO1

Design and develop computing subsystems for data storage, communication, information processing, and knowledge discovery.

###### PSO2

Design algorithms for real world problems focusing on execution, complexity analysis considering the security, cost, quality, and privacy parameters in software development.



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### DECLARATION

We declare that a Mini Project entitled “**SPEECH RECOGNITION SYSTEM USING GOOGLE API**” is an Original Work submitted by the following group members who have actively contributed and submitted in partial fulfillment for the award of degree in **“Bachelor of Information Technology”,** at **St. Peter’s Engineering College**, Hyderabad, and this project work has not been submitted by me to any other college or university for the award of any kind of degree.

**Group No**: 04

**Program**: B. Tech

**Branch**: Information Technology

**Mini Project Title**: Speech Recognition System Using Google API

**Date Submitted**:

|  |  |  |
| --- | --- | --- |
| **Name** | **Roll Number** | **Signature** |
| **PUNNA SAI GANESH** | **21BK1A1298** |  |
| **VANJARAPU BHANU CHARAN** | **21BK1A12C3** |  |
| **BELLAMKONDA RAGHU** | **22BK5A1203** |  |