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| **CMR College of Engineering & Technology**  ***(UGC Autonomous)***  **Kandlakoya, Medchal Road, Hyderabad 501401**  **Centre for Engineering Education Research (CEER)**  **Social Innovation in Practice**  **IV Sem A.Y 2023-24**  **LOCOBOT** | | |
| **ABSTRACT:** | | |
| In this project, we developed an interactive robot capable of moving forward, backward, left, and right, and responding to verbal commands. Utilizing Arduino for control, the robot features robust speech recognition for seamless human-robot interaction. This versatile robotic assistant can follow instructions, and engage in simple conversations. It is designed for adaptability, it can be expanded for more complex applications. | | |
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| **DESCRIPTION:** | | |
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| An interactive robot capable of moving in four directions: forward, backward, left, and right using dc motors and servo motors for movement. Controlled by an Arduino, the robot features speech recognition, allowing it to respond to verbal commands and engage in simple conversations. This robotic assistant is designed to perform basic tasks and follow user instructions, enhancing daily life through practical and innovative technology. | | |
| **CONCLUSION:** | | |
| We successfully developed a versatile and interactive robotic assistant that can navigate in multiple directions and respond to verbal commands. By integrating Arduino with speech recognition, the robot demonstrates significant potential to enhance daily life through practical applications. Its expandable design allows for future advancements and more complex functionalities. |  | |
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| **FACULTY STUDENTS** | | |
| 1. Mr. B. Suresh Ram (HOD-CEER) 2. Mr. K. Ravi Kiran (Assistant Professor) 3. Mr. K.Sathish (Assistant Professor) | | P. Venkata Sai - 22H51A0550  Rhea Reddy.T - 22H51A0553  S.Koushik Kumar - 22H51A0554  Sarmista Rath - 22H51A0555  G.Sowmya - 22H51A0588 |
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