

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama” Belagavi – 590 018



PROJECT REPORT ON “AUTO DELIVERY BOT”

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

BACHELOR OF ENGINEERING IN ELECTRONICS & COMMUNICATION ENGINEERING

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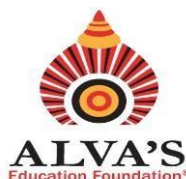
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

A+, Accredited by NAAC & NBA

MOODBIDRI – 574 225.

2023-2024

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CERTIFICATE

Certified that the project work entitled "AUTO DELIVERY BOT" is a bona fide work carried out by

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in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



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ABSTRACT

This paper presents a delivery bot system aimed at providing precise, efficient, and affordable last-mile delivery services accessible to all, leveraging the versatility and affordability of Raspberry Pi technology. The system integrates a range of hardware components and software functionalities to achieve its objectives. Hardware features include ultrasonic and infrared sensors for obstacle detection, ensuring safe navigation in diverse environments. Actuators and motor drivers enable precise movement and control, enhancing the bot's agility and responsiveness. The Raspberry Pi acts as the central processing unit, orchestrating data processing, communication with peripherals, and execution of navigation algorithms. Software functionalities encompass route optimization algorithms and user-friendly graphical user interfaces (GUIs) for intuitive control. By combining these elements, the delivery bot offers a cost-effective and reliable solution for last-mile delivery, empowering businesses and individuals alike to access efficient and affordable delivery services. This project demonstrates the practical application of Raspberry Pi technology in addressing real-world logistical challenges and highlights the potential for future advancements in autonomous delivery systems.