

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
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**MINI PROJECT REPORT**

**ON**

**CHATBOT AI FOR FOOD ORDERING**

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**CERTIFICATE**

*Certified that the mini project work entitled "CHATBOT AI FOR FOOD ORDERING " is a bonafide work carried out by*

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in partial fulfilment for the award of **BACHELOR OF ENGINEERING** in **INFORMATION SCIENCE AND ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM** 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 mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the Bachelor of Engineering Degree.

A handwritten signature in black ink, appearing to be "Pradeep V", written over a horizontal line.

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## **ABSTRACT**

The advent of artificial intelligence has brought about significant advancements in the development of chatbots, enabling more sophisticated and human-like interactions. This paper presents a comprehensive study on the creation of an AI-based food ordering chatbot aimed at enhancing user engagement and providing accurate, timely responses. The proposed chatbot leverages state-of-the-art technologies, including natural language processing (NLP), deep learning, and machine learning, to improve its ability to understand and respond to user inputs effectively.

The increasing demand for instant and accurate information has led to the widespread use of chatbots across various sectors. However, many existing chatbots suffer from limitations such as poor understanding of user intent, slow response times, and difficulty in handling complex queries. Our research identifies these key challenges and proposes a robust AI-based chatbot model designed to improve user interaction and satisfaction.

The chatbot model incorporates deep feedforward multilayer perceptron networks, enabling it to learn from large datasets and improve response accuracy over time. It is evaluated based on several performance metrics, including response accuracy, time complexity, and user satisfaction. Our findings demonstrate that the chatbot achieves high accuracy rates and minimal computational overhead, making it a practical solution for real-world applications. The study also provides insights into the functionalities and potential applications of AI chatbots, highlighting their role in improving user interaction and operational efficiency.

By presenting this AI-based chatbot model, we aim to contribute to the ongoing advancements in chatbot technology and offer a solution that addresses the limitations of existing systems. This research not only showcases the technical capabilities of the proposed model but also emphasizes its practical value in enhancing user experience across various domains.