HEALTHCARE CHATBOT

Project-III (IT07PPC21) report submitted to

Guru Ghasidas Vishwavidyalaya

in partial fulfilment for the award of the degree of

Bachelor of Technology

in

Information Technology

Shyam Kumar 20107060 GGV/20/01461
Tejasvi Malvi 20107070 GGV/20/01471
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Under the supervision of

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2020-2024

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CERTIFICATE

This is to certify that the project report entitled "**HEALTHCARE CHATBOT**" submitted by **Shyam Kumar 20107060 (GGV/20/01461), Tejasvi Malvi 20107070 (GGV/20/01471), and Yogesh Kumar 20107072 (GGV/20/01473)** to Guru Ghasidas Vishwavidyalaya towards partial fulfilment of requirements for the award of degree of Bachelor of Technology in Information Technology is a record of bona fide work carried out by him under my supervision and guidance during .

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Abstract

Name of the student: **Shyam Kumar 20107060 (GGV/20/01461), Tejasvi Malvi 20107070 (GGV/20/01471), and Yogesh Kumar 20107072 (GGV/20/01473)**

Degree for which submitted: **Bachelor of Technology**

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Thesis supervisor: **Mr. DEEPAK KANT NETAM**

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Creating a healthcare chatbot involves intricate abstraction layers to facilitate seamless user interaction and accurate responses. At the user interface level, intuitive design elements guide users through conversations. Beneath this lies the natural language processing layer, employing techniques like tokenization and sentiment analysis to understand user queries. Domain abstraction structures medical knowledge, encompassing diseases, symptoms, and treatments. Logic abstraction interprets user intent and retrieves relevant information, while integration abstraction enables interaction with external systems like electronic health records. Feedback abstraction ensures continuous improvement through user feedback and machine learning algorithms. These layers collectively enable the chatbot to provide informed healthcare assistance while maintaining user engagement and satisfaction.