INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DHARWAD

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MINI PROJECT WORK REPORT ON

"COVID-19 Recommendation System (Chatbot)"

In partial fulfilment of the requirements for the VI Semester of Bachelor of Technology

In Computer Science Engineering.

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ABSTRACT

We are all together in a fight against the COVID-19 pandemic. Chatbots, if effectively designed and deployed, could help us by sharing up-to-date information quickly, encouraging desired health impacting behaviours, and lessening the psychological damage caused by fear and isolation. Despite this potential, the risk of amplifying misinformation and the lack of prior effectiveness research is cause for concern. Immediate collaborations between healthcare workers, companies, academics, and governments are merited and may aid future pandemic preparedness efforts.

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Chapter one

Introduction

1.1. Problem Statement

With the spread of COVID-19 across the world, there is a sense of panic and uncertainty amongst the public. People are not sure what measures to take to safeguard themselves and their family and have many questions.

1.2. State of the Artwork

During the novel coronavirus (COVID-19) pandemic, institutions like the Centers for Disease Control and Prevention (CDC) and the World Health Organization (WHO) have begun utilizing chatbots to share information, suggest behavior, and offer emotional support. Chatbots are software programs that talk with people through voice or text in their natural language. Some well-known examples include "Alexa" from Amazon, "Siri" from Apple, and "Cortana" from Microsoft. They often come pre-installed on smartphones or home-based smart speakers. In recent years, chatbot use for health-related purposes has increased considerably, from supporting clinicians with clinical interviews and diagnosis to aiding consumers in self-managing chronic conditions. Chatbots have varied widely in their responses to questions about physical health, suicide, intimate partner violence, substance abuse, and other sensitive conversations. The COVID-19 pandemic puts in stark relief the potential for chatbots to help save lives.

Chapter two

Software Requirements Specifications(SRS)

2.1. Platform

- PyCharm
- Spyder 3.0

2.2. Language Used

- Python
- 2.3. Graphical User Interface (GUI)
 - Tkinter

2.4. Libraries Used

- Pytorch
- Pandas
- NumPy
- NLTK
- Matplotlib
- BeautifulSoup
- Pillow
- Requests

2.5. Others

- Intents (JSON File)
- Natural Language Processing (NLP)
- APIs
- Web Scraping
- Website: MoHFW, CoWIN, Worldometer

Chapter Three

Results



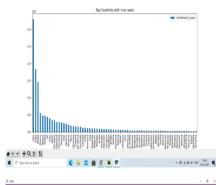


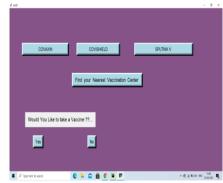
















Chapter four

Conclusion and Future Scope

The WHO Director-General recently called for innovative pandemic responses. To this aim, chatbots are already being deployed in the fight against COVID-19. If designed effectively, chatbots may help prevent misinformation, aid in symptom detection, engender infection-limiting behaviors, and lessen the mental health burden of pandemic response. In a pandemic, no group of people remains unaffected for long. Together patients, healthcare workers, academics, technology companies, NGOs, and governments can ensure chatbot say the right thing.

In the future, the chatbots can be used to avoid any kind of misinformation being spread.

Chapter Five References

- WHO Website- www.who.int
- MoHFW Website-www.mohfw.gov.in