INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DHARWAD

IIIT Dharwad Campus, Ittigatti Road, Near Sattur Colony, Dharwad 580009.



MINI PROJECT WORK REPORT ON

"AI COVID-19 Recommendation System (ChatBot)"

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

In Computer Science Engineering.

Submitted By:

"B Ragavan-18BCS016"

"G K Bharath Bhushan-18BCS026"

"Meghana N-18BCS053"

"Varun Mahesh Awati- 18BCS108"

Under the Guidance Of:

Dr. Uma Sheshadri, Ph. D,
Professor
Department of Computer Science
Engineering IIIT, Dharwad- 580009

ACADEMIC YEAR 2020-21

ACKNOWLEDGEMENTS

No project or venture is complete without the assistance and guidance by many people who constantly help us in reaching the final point. The commendation of the successful completion of work is to those hands which stood by us in every small step we took. We are using this opportunity to express our gratitude to everyone who supported us throughout the course of the project. We are thankful for the inspiring guidance, invaluably constructive criticism and friendly advice during the project work. We are sincerely grateful to them for sharing their truthful and illuminating views on a number of issues related to the project.

We also thank to our beloved director **Dr**. **Kavi Mahesh** who is the founding stone in every endeavour of ours. He is our constant benefactors who stood by us at all obstacles we faced.

This project would not be realized without the consistent encouragement of **Dr. Arun Chauhan,** Head of Computer Science Department. He was always a pillar of support who was never exhausted to assist us at any time.

We take this opportunity to thank our guide **Dr. Uma Sheshadri**, who constantly encouraged us not to give up on our ideas and helped us improvise through his commendable experience and was also a pillar of support at every stage.

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.

CONTENTS

Contents	Page no.
Abstract.	I
Chapter 1. Introduction.	1
Chapter 2. Software Requirements Specifications (SRS).	2
Chapter 3. Results.	3
Chapter 4. Conclusion and Future Scope.	5
Chapter 5. References	6

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

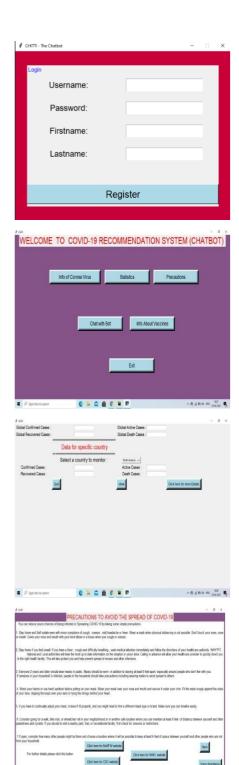
- Pytorch
- Pandas
- NumPy
- NLTK
- Matplotlib
- BeautifulSoup
- Pillow
- Requests

2.5. Others

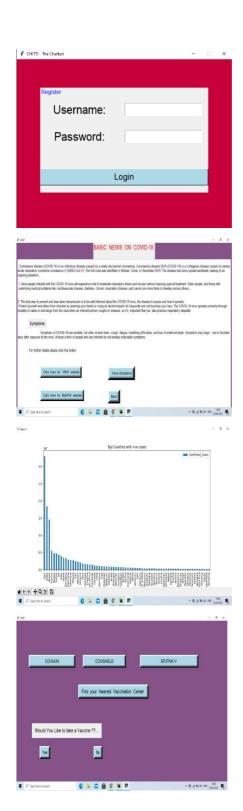
- Intents (JSON File)
- Natural Language Processing(NLP)
- APIs
- Web Scraping
- Website: MoHFW, CoWIN, Worldometer

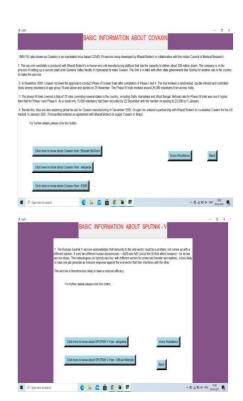
Chapter Three

Results



■ P Species Seconds © N © B © N D A A Section Section







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