
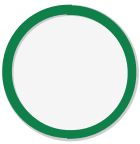




## PLAGIARISM SCAN REPORT

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Now that individuals are spending more time in the virtual world as a result of the Covid19 pandemic, psychologists have discovered that 8 out of 10 people feel lonely sitting at home even while doing work for not getting to see their peers or close ones - which is specifically seen in older teens or young adults. The authors of this paper devised an innovative method for dealing with people's loneliness by utilising a deep learning chatbot. Chatbot development has grown in popularity, and numerous conversational chatbots have been developed to replace traditional chatbots. A chatbot is a piece of computer software that communicates with humans and anticipates their needs. The chatbot responds to the user's inquiry and can occasionally do actions as well.

Keywords - overcoming loneliness, Chatbot, Deep Learning, Natural Language Processing(NLP)

### 1. Introduction

As the COVID-19 pandemic spreads around the world, posing a serious threat to population health and economic growth, it is causing widespread concern, fear, and stress, resulting in a state of disorganised psychological well-being, all of which are natural and normal reactions to the changing and uncertain situation in which everyone finds themselves. Several studies have found a significant incidence of psychological distress, which has been linked to a negative perception of the pandemic's severity as well as containment methods such as lockdown, forced facemask wear, social isolation, and so on. Residents have found the reactions at national levels, which are frequently accompanied by lock-down enforcement, to be difficult. The psychological components of this must be investigated concurrently, with a focus on the COVID reaction and the adaptive response to lock-down, particularly in the Indian environment, where morbidity tends to exceed available resources, and a solution to this problem must be discovered.

Researchers believe that older teenagers and young adults are particularly vulnerable because they commonly shift from their hereditary families to their chosen families, resulting in a lack of vital ties to individuals who might serve as critical guardrails against loneliness. Students at college may struggle to fit in and experience homesickness, while those who are not enrolled in school may feel isolated from vital social groups or communities. Young people routinely make important decisions about their job and personal lives, as well as their relationships, according to the researchers, which can contribute to their stress and sense of isolation.

The problem isn't only in India; it's all throughout the world. According to a recent American study, 36% of respondents to a national poll of around 950 Americans stated they felt lonely frequently, almost all the time, or all the time in the preceding 4 weeks, compared to 25% who claimed they had major troubles in the two months before the epidemic. The fact that 61 percent of individuals aged 18 to 25 reported high levels is perhaps the most remarkable. Psychologists are concerned that the coronavirus pandemic is causing a loneliness epidemic, claiming that feelings of social isolation are on the rise and that older teenagers and young adults are the most impacted.

As a result, this issue must be dealt with as quickly as possible. The authors of this paper suggest a deep learning-based solution to this problem: a chatbot that would provide company to a person for 24 hours a day with conversational maturity.

## 2. Literature Survey

Chatbots are conversational interfaces that offer a new and intelligent way of interacting with computers. To get a query answered by a software, a search engine is used and certain forms are filled out. The chatbot, on the other hand, allows any user to ask a question in the same way that a person asks another person. Chatbots are becoming increasingly popular on web-sites. Natural Language Processing(NLP) is the chatbot's technology. Chatbots have been around for more than 50 years in the NLP field. The ELIZA chatbot was the first well-known chatbot in the NLP field, having been built in 1966. It was a psychotherapy bot that acted as if it were a real psychotherapist. Many technological advancements have recently been achieved that have improved the accuracy and usefulness of Natural Language Processing (NLP). This advancement in NLP is significant for many research purposes, and it could lead to improved chatbot accuracy and efficacy. Chatbots have a bright future ahead of them and can be found on almost every website and online platform.

According to a recent survey, 44% of consumers in the United States prefer chatbots to traditional customer service alternatives. And 61% of those polled claimed they communicate with a chatbot at least once a month since they respond quickly to their questions and save precious time of the customer. It is not only the most cost-effective alternative for businesses, but also the most technically compatible solution for simultaneously treating the concerns of millions of consumers. This is due to the fact that chatbots may communicate with a huge number of customers at once using a messaging app. Companies might use it as a data collection tool, collecting and analysing enormous amounts of data at the same time

It could also be used for other commercial purposes. Nowadays, practically every chatbot is focused on a certain business objective, but there are still a handful that people can use as talking buddies when they are lonely or when they are alone and have no one with whom to share their feelings. Due to these problems, people develop anxiety and despair. As a result, there must be a solution to this dilemma, leading to the writing of this research paper.

## 3. Our Propositions

Intelligent chatbot solutions can be implemented using a number of powerful bot development frameworks, tools, and platforms. The authors of this paper advocated that instead of adopting any bot development framework or platform, they should create a simple, intelligent end-to-end domain-specific chatbot from the ground up using deep learning with Keras to deal with the loneliness of the people.

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