

How AI treats depression caused by cyberbully



—Introduce technology into the treatment of depression

Abstract

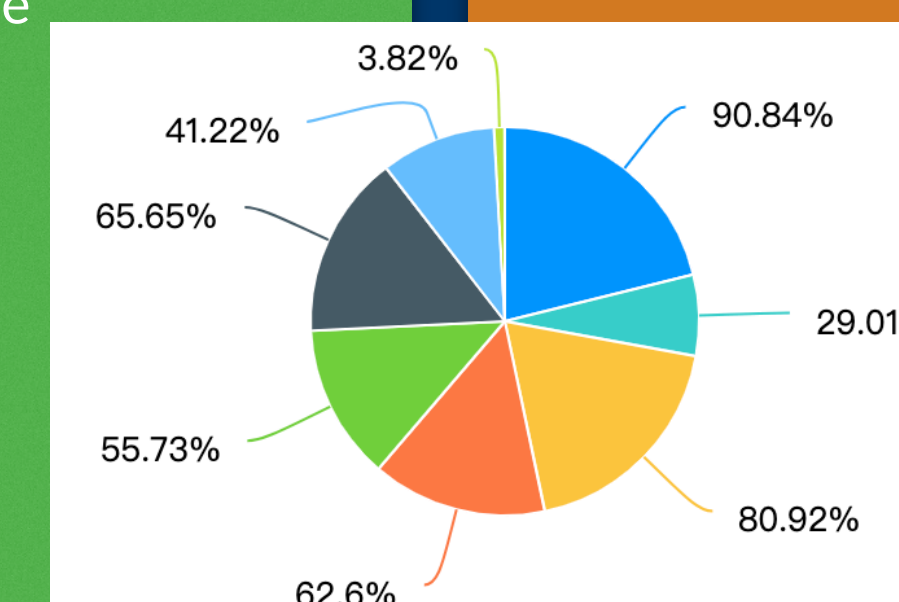
In recent years, there are some netizens use internet to harm people which called the cyberbully. Our research topic is how the cyberbully will lead to depression, because it is key for us to find out the method which can relieve the depression. Solving this problem will inform further efforts to create solutions and measures. After all the research and the experiment, we finally can conclude that the extent of depression caused by cyberbully can be influenced by the different online platforms and the psychological situations of victims. Specifically, we find out the netizens which always use weibo and the living-streaming platforms will have the highest degree of depression. The result also means the level of depression will depend on the number of people which use the platforms, comments restrictions and the strangeness of netizens around them. Secondly, the family relationship and the friendship of users will also affect their level of depression. When we find all these results of our research question, we make some implements. The main implement of our group is the app “friend of mdd” in Android system. The app can make the analysis of people’s depression level, provide the mood diary, give some medical guide and so on. What’s more, we invite a microblog on the internet and update some news about the cyberbully-depression. We first employ this app in our circle of friends, they all have positive comments after using them and provide us some suggestions as well. The people who get depression use our app said that it’s easy for them to use and can be very helpful in the future. Our research results and implements can all drive the audience to see the seriousness of depression people and can pay more attention to taking care of others. What’s more, for the patients, these results can make them have a deeper understanding about their diseases and prevent their diseases to be worse.

Introduction

The modern people now inhabit the age of information when the electronic devices have already reached most of corners of the globe. The impacts from the digital technology and social media are overwhelming. Many netizens use the website to give rise to cyberbully which leads some modern citizens facing unprecedented psychological traumas. Even worse, some people got depression because of long-term psychological harm from the internet. What’s more, in our daily life, some friends around us get depression because of cyberbully and many famous stars which we love kill themselves for it. Thus, our group wants to find out that how can cure the depression caused by cyberbully by using the artificial intelligence. If we can use the high technology to compensate the harm which the technology did to us, the problem can be solved effectively. This question is very important because there are more and more people get depression because of that but the society has not realize the problem yet. We also research some information about our research question and find out some background information. We search the factors which will cause the depression and find out that depression will be caused by many factors such as the relationship to the society, the gene in the patients’ families, the language use during conversation. What’s more, when we first want to make an implement, we search the background information too. We take courses about how to make an app and figure out what kind of function in the app will be useful for the patients who got depression. We also find some similar app in the app store and conclude their advantages and disadvantages.

Research

As the development of Internet and the wide diffusion of different types of social medium, the number of people suffering from depression due to Internet violence is increasing. Our group mainly want to investigate how internet violence bring about depression. We focus on the operation mode of the internet world and the lenses of psychoanalysis of persecutors and victims. First of all, the relatively free and hidden world of cyberspace encouraged people to share their thoughts and perspectives without consequences to certain extent. Moreover, the growing pressure, no matter for jobs or families, compels persecutors to vent their frustration and self-abasement by attacking others. Last but not least, people who lack the self consciousness and self esteem may easily be swayed by what others say. We test this hypothesis by searching the basic information, making the questionnaire and the doing the experiment. In the part of questionnaire, we conducted a in-depth research on over 100 citizens on three different identity stages of citizens, including students, office workers and retirees. In order to study the psychological factors, we designed the questions about family conflicts, work pressure and students’ learning environment, and gave these citizens the opportunity to write down the details in the questionnaire. In terms of experiment, we randomly selected 25 residents as samples to record their mood changes in using different social software. They were micro-blog, WeChat, QQ, post bar, live broadcast software including fighting fish, tiger tooth, panda and jitter. These residents have to spread the same videotape on all these softwares and observing the comments posted by others. The total experimental time was two hours. The mood included happy, angry, sad, confused, calm, etc. When their mood changes significantly, we will record the reasons for their psychological changes. After doing all these research and experiments, we finally conclude that the extent of depression caused by Internet violence can be influenced by the different online operating platforms and the psychological and physical situation of the victims. Analyzing the emotional changes of 25 people using different platforms, such as Weibo, WeChat and TikTok, under certain conditions, we concluded that different online operating platforms will affect the extent of depression. Conducting questionnaires and ask people about variety of situation and state of mind, we concluded that the psychological and physical situation and background will affect the extent of depression. Among the platforms we studied, we found that Weibo and live-streaming platforms had the highest degree of depression. This suggests that the level of depression may vary depending on the number of people using the platform, comment restrictions, and whether people are strangers. We have analyzed the causes of depression caused by Internet violence in depth, but we have not done enough research on artificial intelligence due to the time limit. If we have the chance, we will systematically read books about artificial intelligence and go to relevant companies for training internships. We have been developing our own APP about solving this social problem in the past two months. Although we have not successfully put it in market due to our lack of experience, we will continue to work hard to learn and develop, hoping to make a little difference and bring love to the world.



study-induced stress economic pressure Family Factors Social difficulties Emotional entanglement Fragile Network involved Other

Implementation

During this time, we invented an app which is called “friend of mdd” in Android system. It is invented by a development tool “app inventor”.



We want to offer some help to patients with depression by providing them with some analysis of their depression level, taking care of their daily life, and rendering them some knowledge about depression. The app has several functions, to be more specific: self-rating depression scale, mood diary, alarm clock, consulting hotline, and medical guide. To make this app, we research lots of information about the therapy of depression and take lessons about software production. Besides, we deliberate the research results and consult some psychological doctors and teachers at school, listing all the functions which can be helpful for patients in our app. Through our research report and the results of it, we get some new ideas of our project. Firstly, we find out that many people get cyberbully depression which always use the weibo and live-streaming platforms have the highest degree of depression. Therefore, we make the function in our app specially. The function is you can never give comments on the users space and everyone can give themselves alias during using this app. Secondly, we find out that the relationship between parents and friends may cause depression as well. Sometimes, the patients will be very sad and don’t know who to pour out, so we designed a space which the patients can record their experience there and we called this “mood diary”. What’s more, during research, we find out that for many patients who get depression always loose their daily routine and don’t want to do anything. Thus, we also create these patients a function which can warn them about things they have to do. What’s more, during some interview, the patients tell us that they won’t tell their family about their disease at all, so we design a function which can analyze the patients depression extent by artificial intelligence and if it detect the high degree of depression, it will send message to the patients’ parents directly and give the patients some consulting line and location of hospitals. In addition, we inspected a lot of other solutions before starting our own methods. There are already some similar apps about depression treatment online, however, lacking some functions. We studied some of the app online and found out that these apps are not comprehensive about its treatment and not specific in depression. For example, some of the apps only provide some basic information about depression and it will cost money when you want to get further information. What’s more, the analysis of the app may not be correct because the source of it is unknown. In addition, these app will not give individual advice and the doctors in it may not be professional. Differently, in our app we will provide the large amount of information of depression for free and will update our data base. The professional doctors’ call will be showed in our app. The functions in our app are comprehensive, we design several functions in it. What’s more , the analysis in our app is made by the artificial technology and can always update. We have paid a lot attention on the source of the problem. We speculated that the source of the problem, which is the internet, weighs a great percent in patient's mind. Since they spent most of their time surfing the internet, they may be more deft using the app. If we deal with that problems by using the same source as the origin, a great process will pose on our project.

Till now, this app successfully has its fundamental functions and can be used by others. More functions and data can be added in the future. When we made this app, we advertise it in our friends circles and some of them use it. The level of using the app is not very large because it is made only a month ago and many people don’t know it yet. However, the app is very popular in our friends circle and many classmates or our friends like use it to analysis their mental state. We will advertise this app more in the

Future discussion

In the future, our group can make more real activities. There are still many functions that can be added in our app. For example, we will try to make a community for users of our app. It can not only provide them an access to chat with people with the same symptom, but also make it possible to get more information and data to deal with. What’s more, we will organize some activities ,which is public welfare, to provide more people with knowledge of depression and the seriousness of cyber-bully. Also, if we have enough time, we will make a video about the patients who get depression because of cyber-bully.