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Final Production Project Report

On

Sentiment-based Chatbot using Machine Learning for mental health

**Submitted to:**

**The British College**

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**Course:** BSC (Hons) Computing

**Level:** 6

**Year:** 2019-2023

Abstract

Student Decleration

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Biblioraphy

1. Books (at least 3-4)
2. Journals (at least 5-7)
3. Web site (at least 7 - 9)

Appendics-

* Proof of methodologies used like SDLC
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**ABSTRACT**

This report consist of the study of the sentiment analyzed chatbot which will provide solutions to the mental health issue.There is still a stigma and taboo around mental health even today, so people usually don’t discuss this issue even to the closed one so coming up with the chatbot that will analyze the sentiment of the user and give them proper response is the main aim of my project. Natural Language Processing(NLP) and NLTK toolkit are being utilized while analyzing the sentiment and provide non-judgmental responses. Algorithms used, training method used. Since people all around the world are using one or the other form of chatbots these days, Without having the fear of judgement the people will be able to satisfy their query and will get the sentimental response they crave for through this chatbot. The report provides detailed description of the planning, designing, evaluating and testing of the chatbot and explains the future development posibilites in this area.

**LETTER OF DECLARATION**

I hearby decleare that the work presented in this project report has been done by myself under the supervision of Sukant Kumar Sahu Sir and has not been submitted elsewhere for any examination.

All sources of information have been specifically acknowledged by refrences to authors or institutions.

Date: Name:Ekata Ghimire

LBU ID: 77261096

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**Introduction**

The most sensitive and growing area of focus has been the Mental Health. Due to the prevelances of different stigma and taboo around mental health indivudals who experience anxeity, stress and depression are not able to seek help(Mental health Research Paper). Since, there are various Technologies evolving in other health sectors, This sentiment based chatbot is the technology that will analyse their problems through text which would be using the natural language Processsing(Mental health Research Paper) and Machine learning algorithms(Mental health Research Paper) to provide the valid responses.

The focus of this project is to create a chatbot using Machine Learning that can provide emotional support and guidance to the users. By making resources and information more available it also aims at improving mental health awareness and reducing stigma around it. This project will include chatbot development, it’s testing and effectiveness evaluation in promoting the positive mental health outcomes.

This project can help those who lack access to conventional mental health resources or who are reluctant to seek assistance because of the stigma associated with it by offering them useful materials. This project will add to the existing research on the relationship between mental health and technology, which has previously been done. It also may encourage more research and development in this field.

**Review of Literature**

Bibliography

In

**(Work Count should include 9000-9500 from Chapter 1 to Chapter 10)**

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**Referencing:**

Harvard

* Why choosen this technology instead of others

Desgin and testing

Evaluation and summary