Chatbot

**Team Members:**

Nishanth Goud Pendimukulla-1151478

. .

**Goals and Objective:**

The objective is to create a The College Enquiry Chat Bot gives users a keyboard interface via which they can write commands and get responses as text messages. It offers comprehensive state services and maintains the functionality and control flow of earlier instructions. Any platform, including the web and mobile devices, as well as channels like Skype, Slack, and Messenger, can simply integrate this. The chat bot serves as a 24/7 customer care representative and offers an effective method of information delivery utilizing artificial intelligence. The user's inquiries are examined to determine the proper intent and how it corresponds with the output message.

**Motivation:**

* Issue with the situation as it is
* • People who are not more tech-savvy are typically unaware of the chat bot system.
* Even if chat bots are a thing, they are not very good at proving answers or solutions.
* The process takes a lot of time and money because customers have to go to the institution if it is far from their homes in order to get their questions answered by the college help desk.
* • There may also be a communication gap between the college and the student as a result of this process..

**Significance:**

Implementing such a pedagogy had as its main goal engaging students in learning that had a personal connection while maintaining intellectual rigor. The traditional objectivist approach to teaching programming to beginners can be used alone, but classroom research shows that when combined with a constructivist approach, students learn more efficiently.

**Objective:**

The most goals of the venture were to create an calculation that will be utilized to distinguish answers related to client submitted questions. To create a database where all the related information will be put away and to develop a web interface. The net interface created had two parts, one for straightforward clients and one for the chairman.

**Features:**

The understudy and guardians can get data from chat bot rather than reaching the college bolster group each time. Our AI Chatbot is brilliantly because it can answer the address indeed on the off chance that it not the precise same as we given in preparing information. It moreover answer within the same setting as the client is taking with

**METHODOLOGY**

The strategy we employed for this application is pretty straightforward. By utilizing tflearn and the idea of natural language processing, we created our own neural network. For training our model, we used the "intents.json" json file. The file called intents.json has a few sample chats, with each chat block organized under a "tag."

Our staff has generated this intentions file; no files from the internet have been used. We have included some basic discussions on the University Of North Texas, some fundamental terms, and some fundamental questions about University Qu.

We used this file to train the model, which we then saved as "model.tflearn" and trained using the tflearn fit() method. all of trained data is being stored in a file named “training\_data” and further this file is used for giving response.

**Project Management:**

**Implementation status report**

**Name:**Nishanth Goud Pendimukulla

Work completed :

Created the dataset(intent.json)

Created own neural network

Contribution(100%)

Work to be completed

Need to train with more data.

**RESULTS AND DISCUSSION**

Our AI chatbot is intelligent because it can respond to a query even if it differs somewhat from the training data we gave it. Additionally, it responds in the same context as the user is using.

**Graphical user interface, application

Description automatically generated**

**Reference:**

Alepis, E., & Virvou, M. (2011). Automatic generation of emotions in tutoring agents for affective e-learning in medical education. Expert Systems with Applications, 38(8): 9840–9847.

Ashok, G., Brian, C., Mithun, K., Shanu, S., Abhinaya, S., & Bryan, W. (2015). Using Watson for Enhancing Human-Computer Co-Creativity. AAAI Symposium: 22–29.

Avalverde, D. (2019). A Brief History of Chatbots. Perception, Control, Cognition. Retrieved March 9, 2019 from: [https://pcc.cs.byu.edu/2018/03/26/a-brief-history-of-chatbots/](https://www.google.com/url?q=https%3A%2F%2Fpcc.cs.byu.edu%2F2018%2F03%2F26%2Fa-brief-history-of-chatbots%2F&sa=D&sntz=1&usg=AOvVaw35Eko-ZvjVSDGKzCqCYeCX)

Ayedoun, E., Hayashi, Y., & Seta, K. (2015). A Conversational Agent to Encourage Willingness to Communicate in the Context of English as a Foreign Language. Procedia Computer Science, 60(1): 1433–1442.

Ben Mimoun, Mohammed Slim, & Poncin, I. (2015). A valued agent: How ECAs affect website customers' satisfaction and behaviors. Journal of Retailing and Consumer Services, 26: 70– 82.

Chatbot Magazine (2019). A Visual History of Chatbots. Retrieved March 9, 2019 from: [https://chatbotsmagazine.com/a-visual-history-of-chatbots-8bf3b31dbfb2](https://www.google.com/url?q=https%3A%2F%2Fchatbotsmagazine.com%2Fa-visual-history-of-chatbots-8bf3b31dbfb2&sa=D&sntz=1&usg=AOvVaw348XQu7kw_PZMselCnkUmo)

Colace, F., De Santo, M., Lombardi, M., Pascale, L., Pietrosanto, A. (2018). Chatbot for E-Learning: A Cases Study. International Journal of Mechanical Engineering and Robotics Research Vol. 7, No. 5, September.

Egencia (2018). What is a Chatbot and How does it work? Retrieved March 9, 2019 from: <https://www.youtube.com/watch?v=38sL6pADCog>

Hattie, J. (2012). Visible learning for teachers: Maximizing impact on learning: Routledge. [https://chatbotsmagazine.com/a-visual-history-of-chatbots-8bf3b31dbfb2](https://www.google.com/url?q=https%3A%2F%2Fchatbotsmagazine.com%2Fa-visual-history-of-chatbots-8bf3b31dbfb2&sa=D&sntz=1&usg=AOvVaw348XQu7kw_PZMselCnkUmo)

Lip ko, H. (2018). Meet Jill Watson: Georgia Tech's first AI teaching assistant. Retrieved on March 9, 2019 from: [https://pe.gatech.edu/blog/meet-jill-watson-georgia-techs-first-ai-teaching-assistant](https://www.google.com/url?q=https%3A%2F%2Fpe.gatech.edu%2Fblog%2Fmeet-jill-watson-georgia-techs-first-ai-teaching-assistant&sa=D&sntz=1&usg=AOvVaw0PtCZ9_cPkBtkHRT1nLGbh).

Maruti Techlabs. (2018). Why can chatbots replace Mobile Apps immediately? Retrieved March 9, 2019 from: [https://www.marutitech.com/why-can-chatbots-replace-mobile-apps-immediately/](https://www.google.com/url?q=https%3A%2F%2Fwww.marutitech.com%2Fwhy-can-chatbots-replace-mobile-apps-immediately%2F&sa=D&sntz=1&usg=AOvVaw1HL8N9pYWXUcIrzgnBJdRn)

[Nguyen](https://www.google.com/url?q=https%3A%2F%2Fwww.businessinsider.com%2Fauthor%2Fmai-hanh-nguyen&sa=D&sntz=1&usg=AOvVaw0u1T5Ilc4EosCDTg4b4z6i), M. (2017). How artificial intelligence & machine learning produced robots we can talk to. Business Insider. Retrieved March 9, 2019 from: [https://www.businessinsider.com/what-is-chatbot-talking-ai-robot-chat-simulators-2017-10](https://www.google.com/url?q=https%3A%2F%2Fwww.businessinsider.com%2Fwhat-is-chatbot-talking-ai-robot-chat-simulators-2017-10&sa=D&sntz=1&usg=AOvVaw38ei-h_0y94DMrnf-iIiHB)

Simplilearn (2018). Machine Learning Basics. Retrieved March 9, 2019 from: <https://www.youtube.com/watch?v=ukzFI9rgwfU>

Sproutsocial.com (2018). A complete Guide to Chatbots in 2018. Retrieved March 9, 2019 from: [https://sproutsocial.com/insights/topics/chatbots/](https://www.google.com/url?q=https%3A%2F%2Fsproutsocial.com%2Finsights%2Ftopics%2Fchatbots%2F&sa=D&sntz=1&usg=AOvVaw3QXWJnNk-p4lvPdv3nj_7m)

V Soft Consulting. (2019). 7 of the best Language-learning Chatbot Apps. Retrieved March 9, 2019 from: [https://blog.vsoftconsulting.com/blog/7-of-the-best-language-learning-chatbot-apps](https://www.google.com/url?q=https%3A%2F%2Fblog.vsoftconsulting.com%2Fblog%2F7-of-the-best-language-learning-chatbot-apps&sa=D&sntz=1&usg=AOvVaw1gU7rzUVpv1hJC2kLV_wRz)

Wikipedia (2019). Chatbot. Retrieved March 9, 2019 from: [https://en.wikipedia.org/wiki/Chatbot](https://www.google.com/url?q=https%3A%2F%2Fen.wikipedia.org%2Fwiki%2FChatbot&sa=D&sntz=1&usg=AOvVaw1tYncuuYzEzANmVTmo2Q1f)

Wikipedia (2019). Siri. Retrieved March 9, 2019 from: [https://en.wikipedia.org/wiki/Siri#Features\_and\_options](https://www.google.com/url?q=https%3A%2F%2Fen.wikipedia.org%2Fwiki%2FSiri%23Features_and_options&sa=D&sntz=1&usg=AOvVaw3Jeop_dA0RyNdr9Es96wYN)

Winkler, R., Söllner, M. (2018): Unleashing the Potential of Chatbots in Education: A State-Of-The-Art Analysis. In: Academy of Management Annual Meeting (AOM). Chicago, USA.

**Github Link for the Project:**

https://github.com/nishanthgoud06/chatBot