



**GUJARAT TECHNOLOGICAL UNIVERSITY
(GTU)
INNOVATION COUNCIL (GIC)
Patent Search & Analysis Report
(PSAR)**



Date of Submission : 19/10/2019

Dear Kaustubh Shailesh Wade,

Studied Patent Number for generation of PSAR : 19BE7_160410116050_5

PART 1: PATENT SEARCH DATABASE USED

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|-----------------------------------|---|--|
| 1. Patent Search Database used | : | Google Patents |
| Web link of database | : | https://patents.google.com/ |
| 2. Keywords Used for Search | : | Chat bot, NLP De-stress service, De-stress service application
Renaissance AI |
| 3. Search String Used | : | chatbot |
| 4. Number of Results/Hits getting | : | 1677 |

PART 2: BASIC DATA OF PATENTED INVENTION /BIBLIOGRAPHIC DATA

- | | | |
|---|---|--|
| 5. Category/ Field of Invention | : | |
| 6. Invention is Related to/Class of Invention | : | NLP |
| 6 (a) : IPC class of the studied patent | : | G06N 3/00 |
| 7. Title of Invention | : | System and methods for an emotionally intelligent chatbot |
| 8. Patent No. | : | |
| 9. Application Number | : | 15/386, 946 |
| 9 (a) : Web link of the studied patent | : | https://patents.google.com/patent/US20180174020A1/en?q=Chat+bot&patents=false&oq=Chat+ |
| 10. Date of Filing/Application (DD/MM/YYYY) | : | 12/21/2016 |
| 11. Priority Date (DD/MM/YYYY) | : | |
| 12. Publication/Journal Number | : | |
| 13. Publication Date (DD/MM/YYYY) | : | |
| 14. First Filled Country : Albania | : | |

15. Also Published as

Sr.No	Country Where Filled	Application No./Patent No.
1		

16. Inventor/s Details.

Sr.No	Name of Inventor	Address/City/Country of Inventor
1	Xianchao wu	Tokyo (JP)

17. Applicant/Assignee Details.

Sr.No	Name of Applicant/Assignee	Address/City/Country of Applicant
1	Microsoft Technology Licensing LLC	Redmond (US)

18. Applicant for Patent is : Company

PART 3: TECHNICAL PART OF PATENTED INVENTION**19. Limitation of Prior Technology / Art**

Well-trained bots are not available, poor designing of application

20. Specific Problem Solved / Objective of Invention

The key point or objective of the invention is to reduce the stress faced by youth.

21. Brief about Invention

The chatbot may utilize sophisticated natural language processing systems or scan for keywords from user input and then pull a reply with the most matching keywords or the most similar wording pattern from a database. However, chatbots are often limited to simple task-driven conversations.

22. Key learning Points

NLP

Various frontend and backend technologies

23. Summary of Invention

The systems and methods as described herein provide emotionally intelligent automated (or artificial intelligence (AI)) chatting by determining a context and an emotion of a conversation with a user.

24. Number of Claims : 19

25. Patent Status : Published Application

26. How much this invention is related with your IDP/UDP?

> 91 %

27. Do you have any idea to do anything around the said invention to improve it? (Give short note in not more than 500 words)

Bolster (support) for linguistic minority as well as other languages which will increase the number of users.

Medical updates before and after chatbot, to check whether the user has been improvised emotionally