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

Dear **Daruwala Mahammadtaaha Chandmahammad,**

Studied Patent Number for generation of PSAR	:	19BE7_160410116023_5

PART 1: PATENT SEARCH DATABASE USED

1. Patent Search Database used	:	Google Patents
Web link of database	:	https://patents.google.com/
2. Keywords Used for Search	:	chatbot nlp ,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+bot
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,Japan

17. Applicant/Assignee Details.

Sr.No	Name of Applicant/Assignee	Address/City/Country of Applicant
1	Microsoft Technology Licensing LLC	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 invention is to reduce stress faced by youth.

21. Brief about Invention

A chat bot may utilize sophisticated natural language processing systems or scan for keywords from a user input and then pull a reply with the most matching keywords or the most similar wording pattern from a database . However , chat bots 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 intel ligence (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 user.
Medical updates before and after chatbot, to check whether user has been actually improvised emotionally.