

GUJARAT TECHNOLOGICAL UNIVERSITY

(GTU)

INNOVATION COUNCIL (GIC) Patent Search & Analysis Report (PSAR)



Date of Submission: 09/10/2019

Dear Gulani Simran Mahendra,

Studied Patent Number for generation of PSAR 19BE7_160410116038_2

PART 1: PATENT SEARCH DATABASE USED

1. Patent Search Database used Google Patents

> Web link of database https://patents.google.com/

Chat bot, NLP, De-stress service, AI, NLP Query Processing 2. Keywords Used for Search

Query Processing 3. Search String Used

7624 4. Number of Results/Hits getting

PART 2: BASIC DATA OF PATENTED INVENTION /BIBLIOGRAPHIC DATA

: 5. Category/ Field of Invention

6. Invention is Related to/Class of Invention **NLP Query Processing**

> 6 (a): IPC class of the studied patent G06F16/3332

7. Title of Invention Natural language utterances to keyword search queries

8. Patent No.

13/592,638 9. Application Number

> $\label{lem:https://patents.google.com/patent/US9064006B2/en?q=~patent%2fUS20180174020A1&patents=false$ 9 (a): Web link of the studied patent

10. Date of Filing/Application (DD/MM/YYYY) 06/23/2015

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	Dilek Zeynep HakkaniTur	Los Altos
2	Gokhan Tur	Los Altos
3	Rukmini Iyer	Los Altos
4	Larry Paul Heck	Los Altos

17. Applicant/Assignee Details.

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

Company

18. Applicant for Patent is

PART 3: TECHNICAL PART OF PATENTED INVENTION

19. Limitation of Prior Technology / Art

Inappropriate reply to the user query.

20. Specific Problem Solved / Objective of Invention

The only objective of invention is to make system efficient by receiving appropriate response to the user query.

21. Brief about Invention

A sta

See application file for complete search history. tistical model may be trained to detect domains according to a plurality of query click log data.

22. Key learning Points

Search keywords of user query.

23. Summary of Invention

Upon receiving a natural

language query, the statistical model may be used to translate

the natural language query into an action, Such as a search engine query. The action may then be performed and at least one result associated with performing the action may be pro vided

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)

After deployment of application, survey from different parts of country in order to get distinguish data and ultimately more responses will be

s	stored in database.
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