

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELGAVI-590014 KARNATAKA



A Project Report (18ECP83)

ON

"AUTOMATIC SQL QUERY GENERATION USING NLP"

Submitted in partial fulfillment of the requirement for the award of degree

BACHELOR OF ENGINEERING

IN

ELECTRONICS & COMMUNICATION ENGINEERING

Submitted by:

PRASHANTH M	1SV18EC016
CHANDANA D	1SV18EC007
LATHASHREE K R	1SV18EC011
RACHANA S R	1SV18EC018

Under the Guidance of:

Prof. PradeepKumar S S

Assistant Professor
Dept of ECE., SIET
Tumkur



SHRIDEVI
EDUCATION

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Recognized by govt. of Karnataka, affiliated to VTU, Belagavi and approved by AICTE, New Delhi)

Sira Road, Tumkur-572106

2021-2022

PRINCIPAL
SIET, TUMAKURU

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Certificate

This is to Certified that the project work (18ECP83) entitled "AUTOMATIC SQL QUERY GENERATION USING NLP" has been Successfully carried out by Prashanth M(1SV18EC016), Chandana D(1SV18EC007), Lathashree K R(1SV18EC011), Rachana S R(1SV18EC018) a bonafide students of Shridevi Institute of Engineering and Technology, Tumkur- 572106, in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Jnana Sangama, Belagavi -590018, during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for internal assessments have been incorporated in the report. The project report has been approved as it satisfies the academic requirement with respect to the project work prescribed for the said Bachelor of Engineering degree.

Pradeep 23/07/22
Signature of the guide

Aijaz 23/7/2022
Signature of the HOD

Narendra Viswanath
Signature of the Principal

Prof. PradeepKumar S S
Assistant Professor
Dept. of ECE., SIET
Tumakuru

Prof. Aijaz Ahamed Sharief
HOD
Dept. of ECE., SIET
Tumakuru

Dr. Narendra Viswanath
Principal
SIET, Tumakuru

EXTERNAL VIVA

Name of examiners:

1. Aijaz Ahamed Sharief
2. Dr. Pradeep K G M

Signature with date:

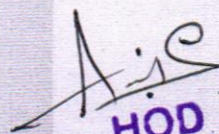
Aijaz 23/7/2022
Pradeep 23/07/2022

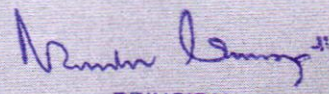
Aijaz
HOD
Dept of E&C
SiET, Tumkur-6

Narendra Viswanath
PRINCIPAL
SIET., TUMAKURU

ABSTRACT

The basic idea is to obtain SQL query from Natural Language efficiently. Structured query language is the most used tool for managing data in the relational database system. Most users are not familiar with SQL which is problematic for managing and retrieving data. A model has been proposed to find a solution to the problem. This helps people who are new and inexperienced in using SQL. The speech in English language is taken as input and is converted into text. This is further translated into SQL query using word mapping technique. Finally, the output is obtained from the result using database. We investigate avenues of using natural English utterances - sentence or sentence fragments - to extract data from an SQL, a narrower inspection of the broader natural language to machine language problem. We intend to contribute to the goal of a robust natural language to data retrieval system. In present industry, communication is the key element to progress. Passing on information, to the right person, and in the right manner is very important, not just on a corporate level, but also on a personal level. The world is moving towards digitization, so are the means of communication. Phone calls, emails, text messages etc. have become an integral part of message conveyance in this tech-savvy world.


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SiET, Tumkur-6


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