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# Automatic Whitelist Generation for SQL Queries Using Desktop Application Tests

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# ABSTRACT

In this survey paper the planned system has been developed to change secure access of information to a voicebased programme (UI) by sanctionative voice-based authentication Associate in Nursingd integration with an existing linguistic communication process (NLP) system. during this survey work on the voice-based SQL question generation. we have a tendency to study the question of a way to improve the attractive the results from question results in addition as applying the question to the info. ancient predefined question forms don't seem to be ready to satisfy varied ad-hoc queries from users on those databases. Here, we have a tendency to propose Machine learning based mostly technique to come up with the SQL question supported user voice, a unique info question kind interface that is in a position to dynamically generate question forms.

**Keywords :** NLP, Languages and compilers, Optimization, Verification, Voice Recognition, Machineindependent microcode generation.

### I. INTRODUCTION

In different words, human language technology may be a technique, which might create the pc perceive the languages naturally utilized by humans. during this project, we have a tendency to square measure translating English question into a SQL question victimisation linguistics synchronic linguistics. The system has been settle for users question in language as associate input. The program has been check whether or not the question is valid or not.

Then we have a tendency to has been generate tokens by acting the division of the question clause. every token represents one word within the users question. The tokens from the question clause square measure compared with clauses already keep within the wordbook. The wordbook has to be perpetually updated. Then the algorithmic program scans the tokens and tries to seek out attributes gift within the question. Then we discover all the tables within the information that the attributes contain by examination syntax and linguistics. Then we have a tendency to build the ultimate SQL question and

304

execute it on the information and come back the result dataset to the user.

Natural Language process (NLP) is a district of application and analysis that explores however computers may be accustomed perceive and manipulate language speech or text to try and do helpful things. the muse of human language technology consist variety of disciplines, namely, laptop and data sciences, linguistics, arithmetic, electrical and electronic engineering, AI artificial intelligence, and scientific discipline. human language technology researchers aim to assemble data on however hu- man beings use and manipulate languages to perform desired tasks in order that applicable tools and techniques may be developed. Applications of human language technology embody variety of fields of study like polyglot and crosslanguage info retrieval (CLIR), machine dealing, natural language, text process and report, user interfaces, speech recognition, AI and professional systems.

While language is also the simplest system for individuals to be told and use, it's tried to be the toughest for a laptop to know. The goal of human language technology is to change communication between individuals and computers while not resorting to acquisition of advanced commands and procedures.

### II. PROPOSED SYSTEM

#### A. Description:

This system has been developed to change secure access of knowledge to a voice-based programme (UI) by sanctionative voice-based authentication Associate in Nursingd integration with an existing language process (NLP) system.

We address the question of the way to improve the attractive the results from question results.

Here, we tend to propose Machine learning based mostly technique to get the SQL question supported user voice, a completely unique information question kind interface, that is ready to dynamically generate question forms.

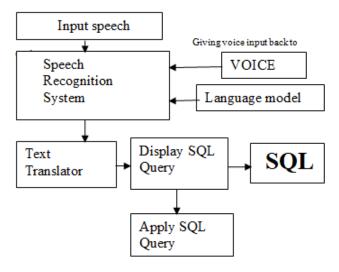


Fig 1. System architecture

#### B. Mathematical Model:

Input-Output: Mathematical ModelU= {I, O, f, S, F} Where,I= {I1, I2}

- I1= {l1,l2..... ln} where n sql query
- I2= i.e. sql query voice based
- $O = \{O1, O2, O3, O4, O5\}$
- O1= Voice process
- O2= Sql Query Generate
- O3 = Apply SQL query
- O4 = SQL query detection
- O5 =Voice Generationf= {f1,f2}
- f1= preprocess (voice, sql query)
- f2 = analysis (sql query)S: Success:
- SQL query successfully apply

#### F: Failure:

- Algorithm not working properly
- Voice command failure



# III. RESULTS AND DISCUSSION

# Fig 2. Login Page



Fig 3. Voice Input Query



Fig 4. Query Result

# **IV.CONCLUSION**

The implementation of the planned system aims to translate SQL question into speech (voice). The scope of the project is to boost the popularity capability for varied SQL question and achieving a lot of accuracy to get the info. We address the question of a way to improve the attractive the results from question results. ancient predefined question forms don't seem to be ready to satisfy varied ad-hoc queries from users on those databases. Here, we have a tendency to propose Machine learning primarily based technique to get the SQL question supported user voice, a unique info question kind interface, that is ready to dynamically generate question forms.

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