**NATURAL LANGUAGE BASED HUMAN COMPUTER INTERACTION**

**Link:** <https://www.irjet.net/archives/V5/i4/IRJET-V5I4748.pdf>

**1. Key Idea:**

The key idea behind using or researching this paper is the proposed system which will initialize speech driver and then user input will be taken with the help of microphone. This speech input will be converted into text. Lexical analyzer will take the text input and convert it into tokens which will be stored in symbol table. Parser takes the tokens as input and generates parse tree

**2. Background Knowledge:**

They are trying to create a system which will listen to a human being and try to do that thing and it is quite interesting and we always think that this type of thing will be so fantastic that will do work as what we say about in (early 90’s) it was just a dream to do this.

**3. Assumptions:**

What I found that they assumed hardware components and software too.

**HARDWARE:**

(a) Microphone

(b) Processor intel core 2 duo and above

(c) 32 or 64 bit processor

(d) GNOME version 3.9.0 and above

**SOFTWARE:**

(a) Speech API (Python speech recognizer using libraries nltk, pyaudio, speech recognition)

(b)Linux (Fedora recommended)

(c)Lex & Yacc installed

**4. Contribution:**

They are doing nlp analysis and trying to get what human is saying.

**5. Critical Points:**

But it will only work for limited accent only.