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CS457 – Artificial Intelligence

Instructor: Susan Mabry

Due Date: 3/4/14

**Project Deliverable 1**

**Natural Language Processing**

**Proposal**

We wish to get an in-depth understanding of how voice recognition relates to Artificial Intelligence. The background behind this is that systems such as the famous Apple “Seri”, is able to accept voice and recognized different patterns of speech grammar and produce results for the user based off of that recognition. However, our project will incorporate how those systems go about interacting with voice recognition. Thus, we have divided our project into two different parts:

**Implementation**

We wish to build a Windows 8 Desktop Application that incorporates simple voice recognition. Initially, we want to make it a math tutor in which based on specific commands we give the program, it will be able to detect those certain phrases and words and produce a result. For instance, if I requested the sum of two plus two, the program will be able to recognize those keywords (such as “you said two”) and produce a result. An overarching goal would be to have the application be able to interact back with the user thus giving way to a more personal app.

**Research and Presentation**

For the research aspect, we will be going more in depth about how voice recognition works in relation to Artificial Intelligence. Through this paper, we will be giving an abstract definition of Artificial Intelligence and how our subject relates to this. For instance, the research will give in-depth analysis of the systems of interactions between the user, the application itself, the server, the cloud, and so forth.

For the presentation aspect, we would like to combine both the efforts of the implementation and research. For instance, providing a demonstration of our implementation and synthesizing it with our research reflects what we have just presented.

**References**

Project Implementation:

<http://www.codeproject.com/Articles/380027/Csharp-Speech-to-Text>

Research:

<http://www.smartplanet.com/blog/smart-takes/say-command-how-speech-recognition-will-change-the-world/>