|  |  |
| --- | --- |
| Submission Date | 9/15/2017 |
| Project Name | Sound Recognition |
| Student Name | Babatunde Olokun |
| Project website | n01046746.github.io/SensorEffector |
| My project will | Voice Recognition |
| The database will store | Sounds |
| The mobile device functionality will include | Amp, microphone, speaker |
| I will be collaborating with the following company/department | N/A |
| My group in the winter semester will include | Babatunde Olokun |
| 50 word problem statement | The purpose of my project is to perform a voice recognition either through simple commands or sounds. People who have poor vision or no vision in fact, often struggle with using many of our daily applications. However, with voice recognition more and more applications are being developed that function more through sound data. |
| 100 words of background | There have been several devices and applications that work through sounds. I personally love applications that focus mainly on sounds, recorders, speaker and microphones. An app known as Shazam is a brilliant example of sound recognition. The application listens to the sounds of a given song and then gives you the song name artist once the song has been discovered. This is done in several seconds and shows how far and advanced sound recognition has come. Other applications such as voicemails through your phone show how important stored sound data can be. My plan is to create a device that has similar functions to the Shazam application. |
| Current product APA citation | Caranica, A., Cucu, H., Burileanu, C., Portet, F., & Vacher, M. (2017). Speech recognition results for voice-controlled assistive applications. *2017 International Conference on Speech Technology and Human-Computer Dialogue (SpeD)*. doi:10.1109/sped.2017.7990438 |
| Existing research IEEE paper APA citation | A. Caranica, H. Cucu, C. Burileanu, F. Portet and M. Vacher, "Speech recognition results for voice-controlled assistive applications," *2017 International Conference on Speech Technology and Human-Computer Dialogue (SpeD)*, Bucharest, 2017, pp. 1-8. doi: 10.1109/SPED.2017.7990438 keywords: {building management systems;natural language processing;speech recognition;Romanian language;TV appliances;acoustic models;air conditioning system;automation tools;grammar models;home boxes;intelligent homes;lighting system;speech processing;speech recognition;voice driven speech applications;voice recognition;voice-controlled assistive applications;voice-controlled smart homes;distant speech recognition;home automation;speech recognition;voice driven applications}, URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7990438&isnumber=7990423> |
| Brief description of planned purchases | Microphone, Amplifier speaker & connection cable. |
| Solution description | Recognize data through sounds. Store data received. Display the input stored as the output. |