**Voice Based ChatBot**

**Source Code Details:**

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| Serial No. | File Name | Type of Language | Type of File (or File Extension) | Functionality | Dependency |
| 1. | DSAI\_Streamlit\_Assist.py | Python | .py  Implemented using OOP concepts | Used to create voice based chatbot in Web Interface. | Input: DSAI\_Deepsphere\_Bot\_Reply |
| 2. | style.css | CSS | .css | Used to describe the presentation of HTML file written using streamlit package |  |

**Run Instructions:**

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| --- | --- | --- | --- |
| Step Number | Run Command | Run Dependency | Run Instruction |
| 1 | Run ‘streamlit run DSAI\_Streamlit\_Assist.py’ |  | This runs Voice based chatbot in Web Interface. |

**Source Code Steps**

1. DSAI\_Streamlit\_Assist.py
   1. Uses streamlit to create webpage
   2. Load corpus data from ‘nltk.corpus.nps\_chat’ inbuilt package
   3. Extract features from input corpus
   4. Split the features into train and test data
   5. Train the classifier with the training data
   6. Load the data from ‘DSAI\_Deepsphere\_Bot\_Reply’
   7. Tokenize and remove punctuations from the data
   8. User can chat with the bot by recording his/her voice and can perceive chatbot’s reply as voice.