Java Offline Commanding

1) Create dataset using all the variations of speech to text conversion.

2) Clean the data (like on saying unbold it records on bold and it confuses with bold so such instances should be removed from dataset).

3) Remove all the stopwords that are not needed (Ex :- can , you,please)

4) Change the sentences into array of words.

5) Change the arrays into count vectors.

6) Train the linear regression model using this count vectors.

7) Print the weights , bias and vocab in java format so that they can be copied directly.

8) Copy the weights , bias and vocab in java file.

9) Convert speech to text in android app (Recognizer Intent is the offline api).

10) Do the mapping of vocab and words in text from speech (0 if particular vocab is not present ; 1 if that vocab is present) . Store it in varaible let say x.

11) Use the equation wx + b (w= weights , b=bias) . It gives the confidence for each intent.

12) Take the intent with maximum confidence.

13) If the max confidence is less than threshold , no intent is inferred.

*** To get threshold test some commands and some random text. The value that is between confidence value of actual command and random text can act as threshold.

14) For params regex matching is used.IF the text contains last sentence , last word or that . It is being stored.

15) Corresponding actions are performed using intent and params.