Uno Morse Conversie

By

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PROBLEM STATEMENT

" Conversion of Morse signal into Audio signal using Kmeans Clustering "

OBJECTIVES

- Making job of Secret agents like RAW, CBI, SPYs easier
- Conversion of secretly transmitted Morse signal into Audio signal within seconds
- Transmission of secret signal with just one button
- Any alphabet, any symbol, any number can be transmitted by just one button
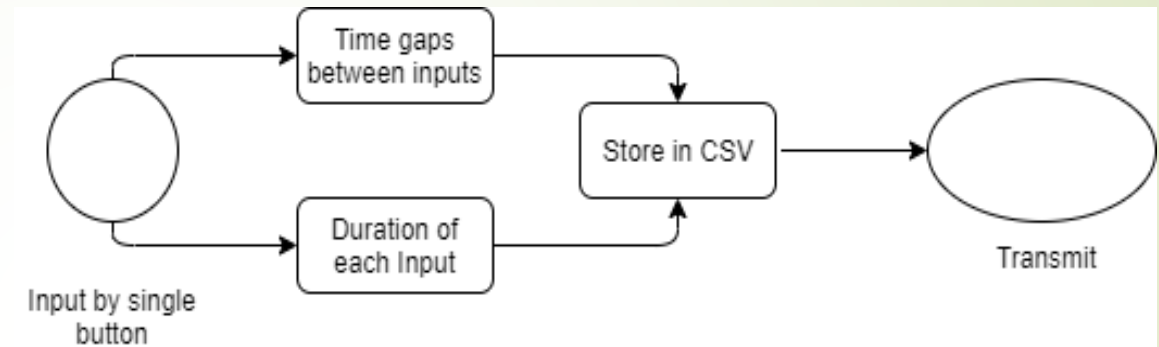
Proposed Methodology
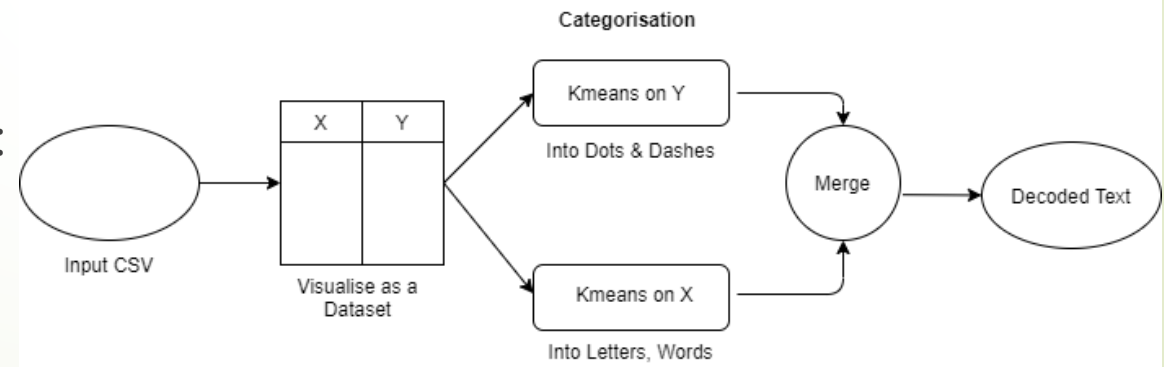
Can be divided into 3 parts:

- Taking input from user, converting into csv

- Conversion of this csv into text using Machine Learning concept i.e., Kmeans clustering

- Converting this text into Audio using gTTs library

Architectural Diagrams

- Input Mechanism:

- Conversion mechanism:

Results

[90 rows x 2 columns]

- Input is converted into csv, then categorised using ML in this way:


```
[20]  #Decoded Text
      print(word)
```

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- Categorised data is converted into text:


```
audio=Audio('output.wav')
audio
```

▶ 0:00 / 0:03

- Text is converted into Audio:
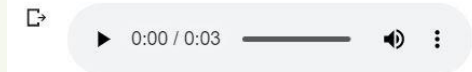
Time taken for converting Morse to Text: 0.8933380000000002 sec
Time taken for converting Text to Audio: 0.23341999999999974 sec
Total time of Execution (Morse to Audio): 1.126758 sec

- Time of Execution: