Twitter Hate
Speech Detection

Can Content Moderation be Automated?

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#### The ABTRACT

- Every major tech company uses third-party contractors
- Automating this process could reduce labor exploitation
- What is Hate Speech?



### **Objective-Process**









Exploratory Data Analysis



Data Cleaning and NLP Preprocessing











Evaluation and Insights



# Unique Words per Label 2705 679 16893 Hate Speech

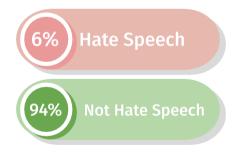
Not Hate Speech

#### **Introduction**

Sourced from 2017 Cornell University research study.

**24,802** Tweets

**20,277** Word Vocabulary



## Data Analysis



What are the linguistic differences between hate speech and offensive language?



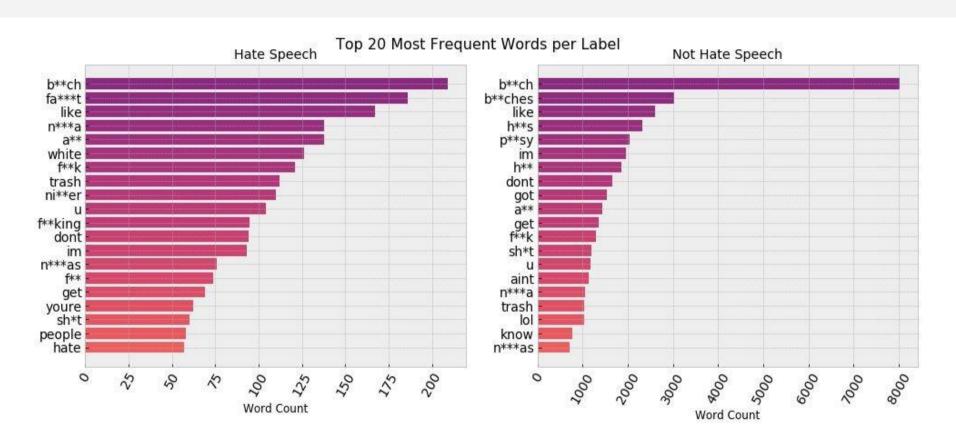


What are the popular hashtags of each tweet type?



What is the overall polarity of the tweets?

## What are the linguistic differences between hate speech and offensive language?

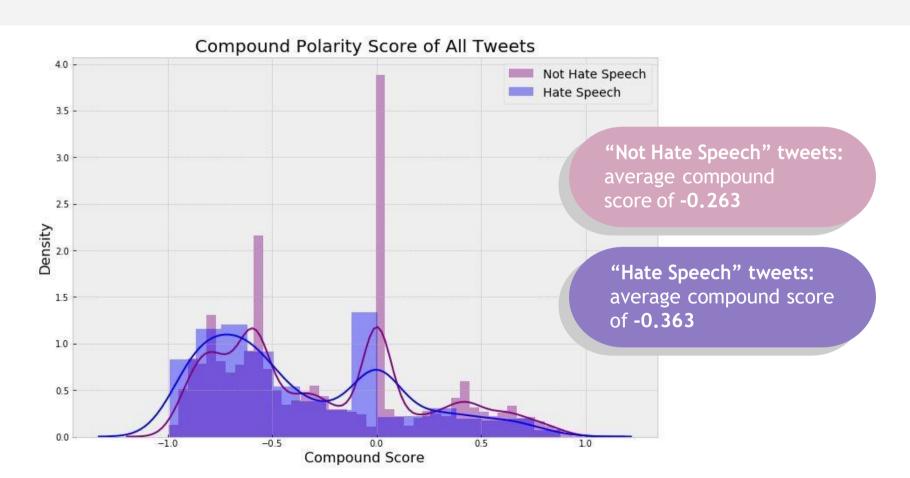


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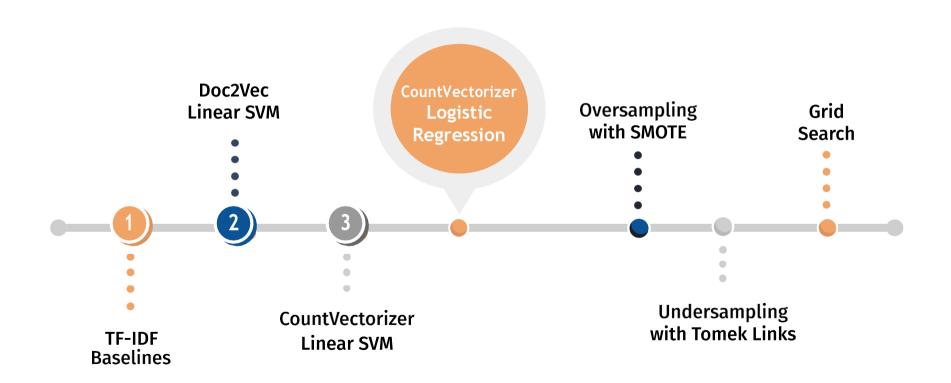


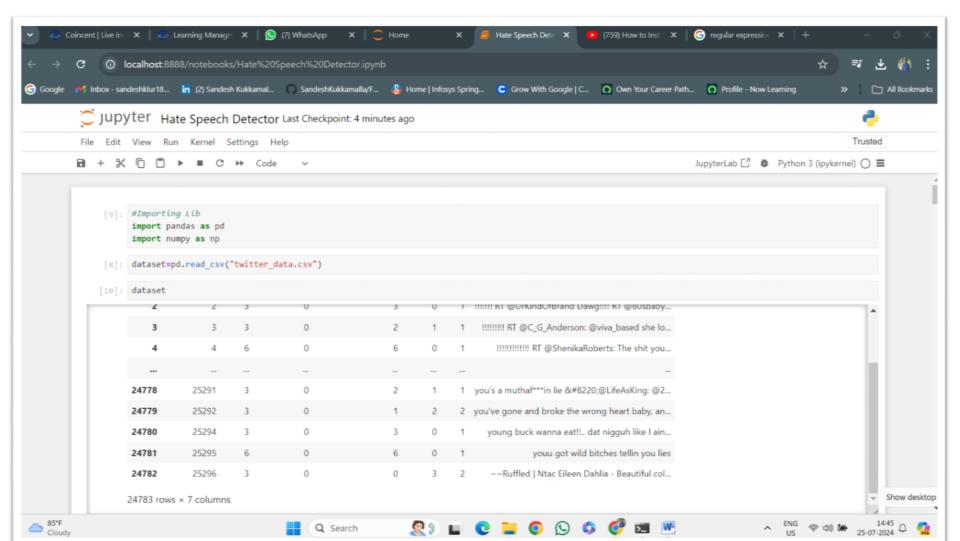


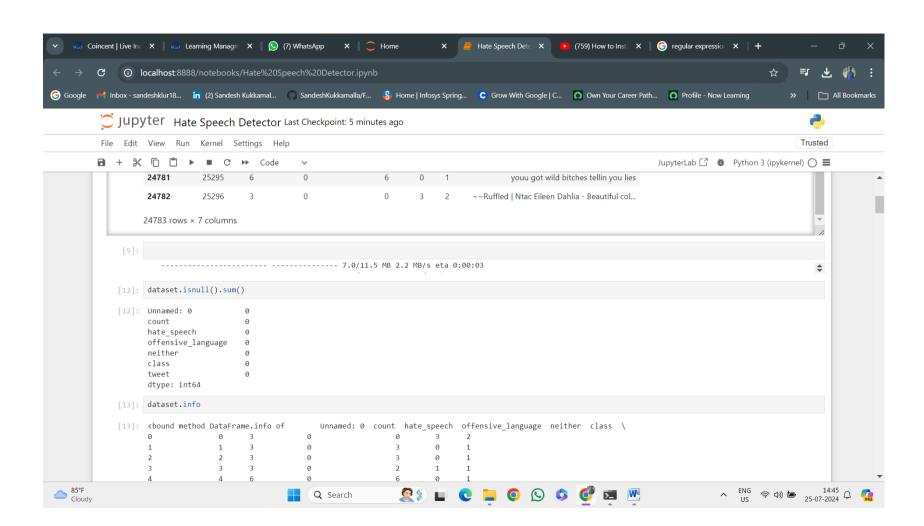
#### What is the overall polarity of the tweets?

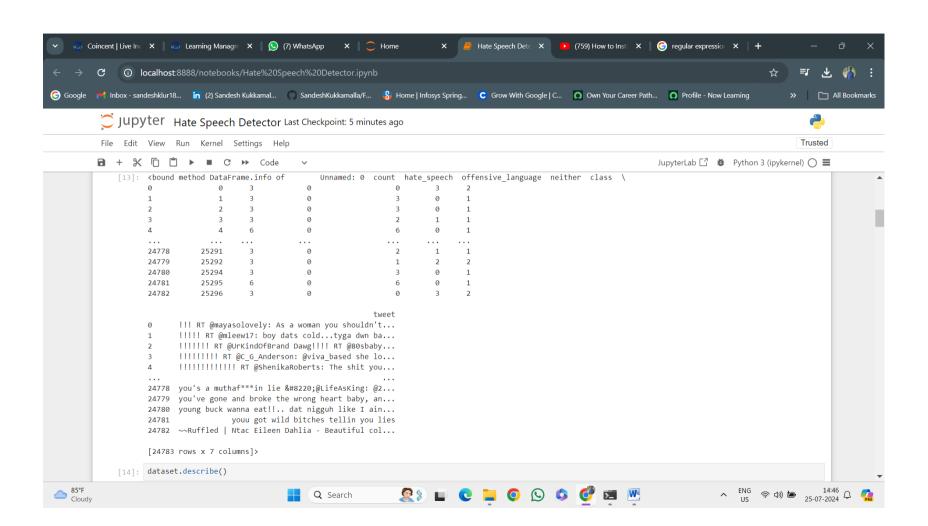


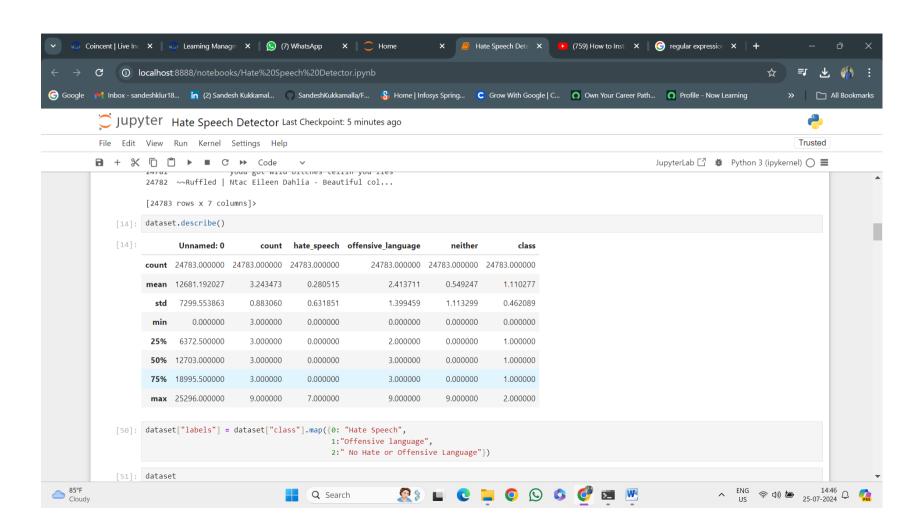
### **Methodology**

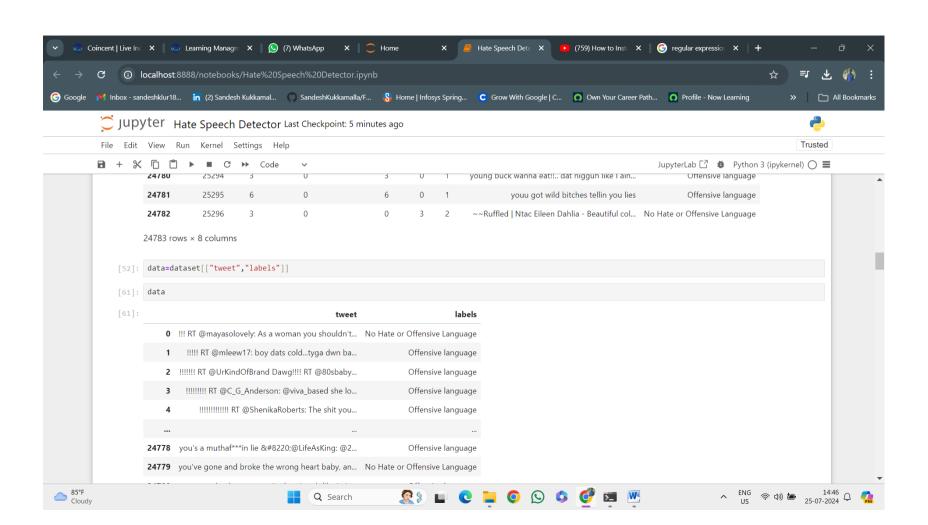


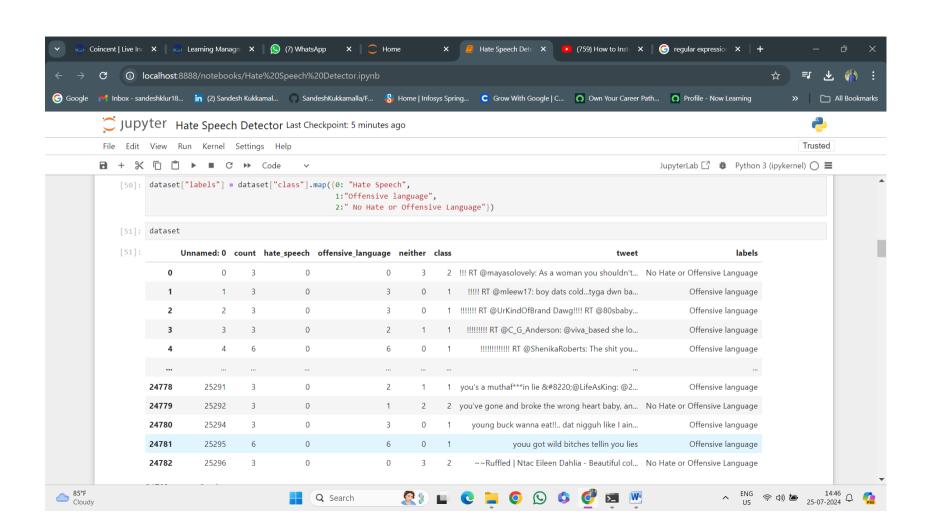


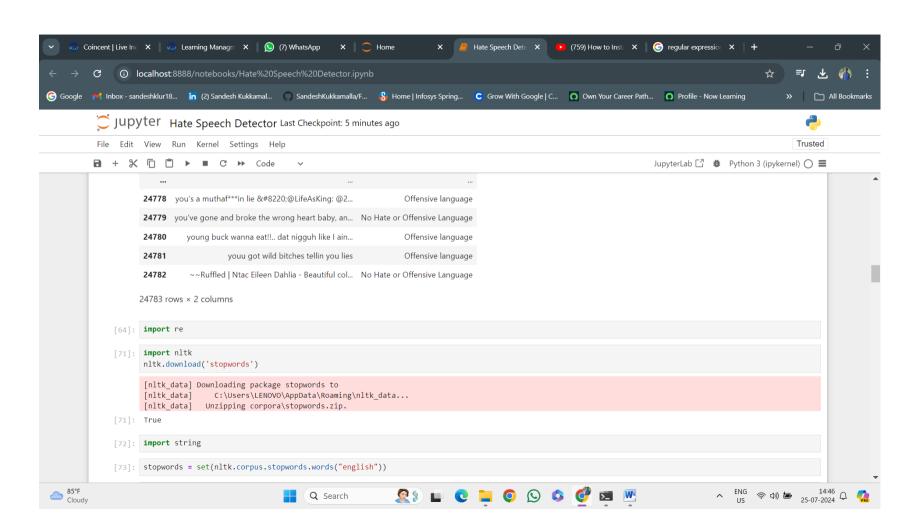


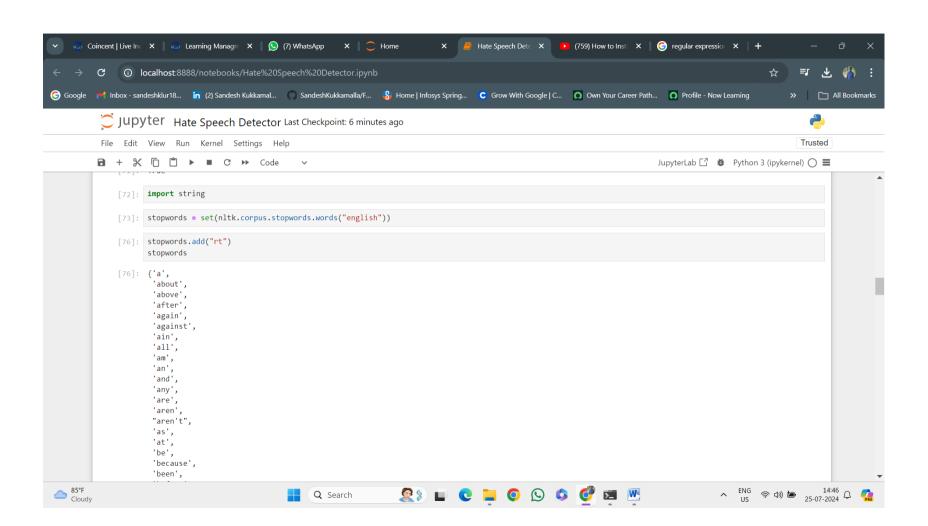


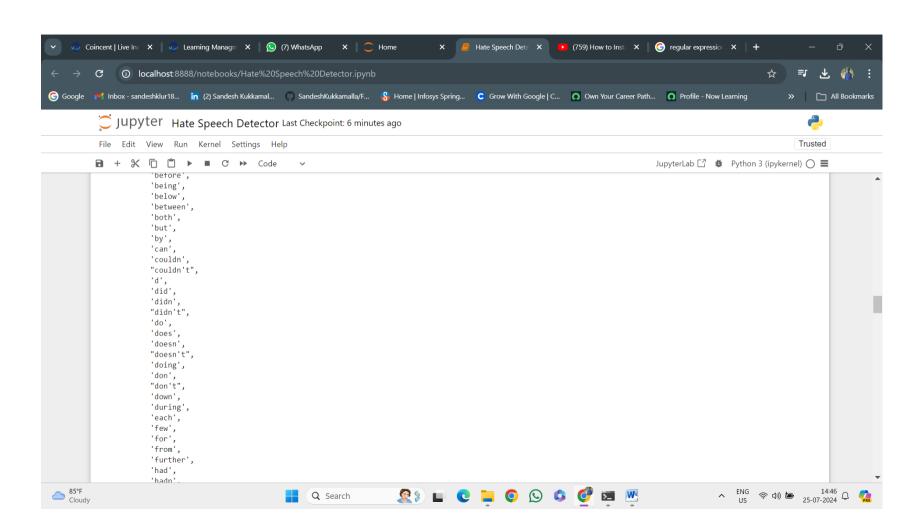


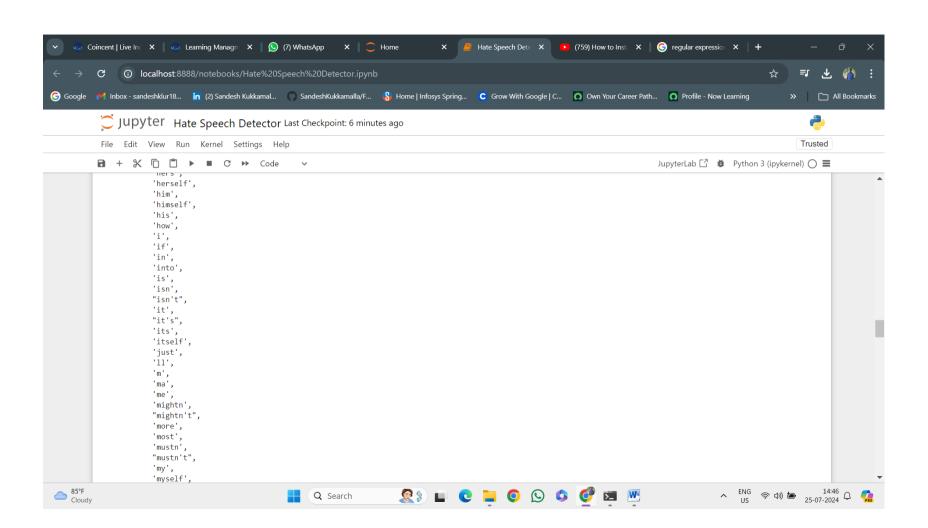


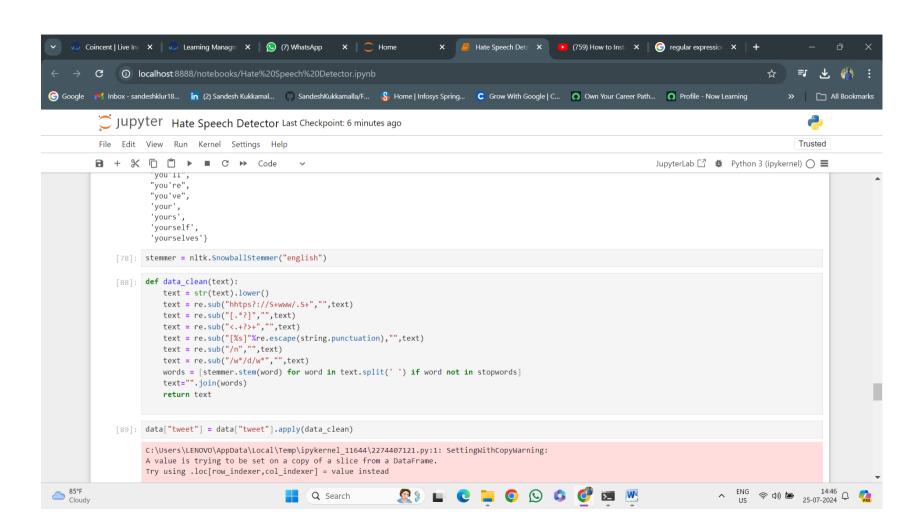


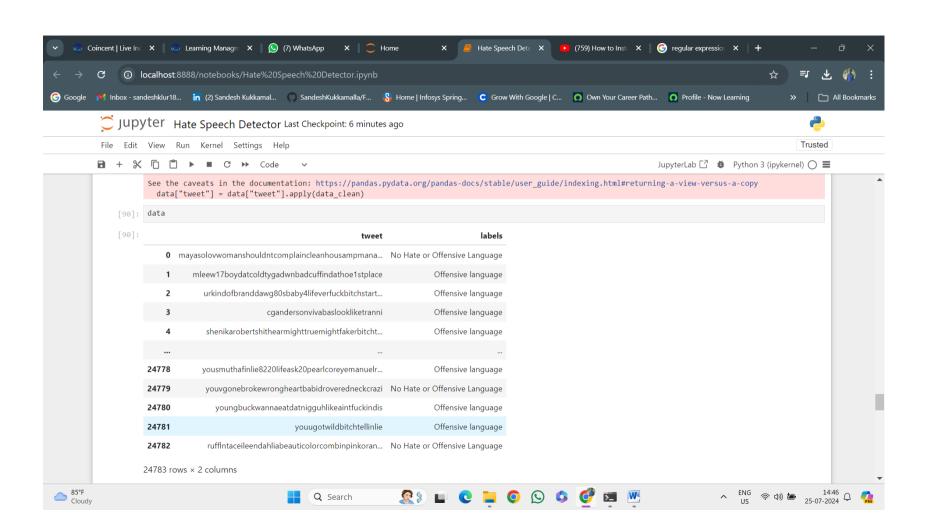


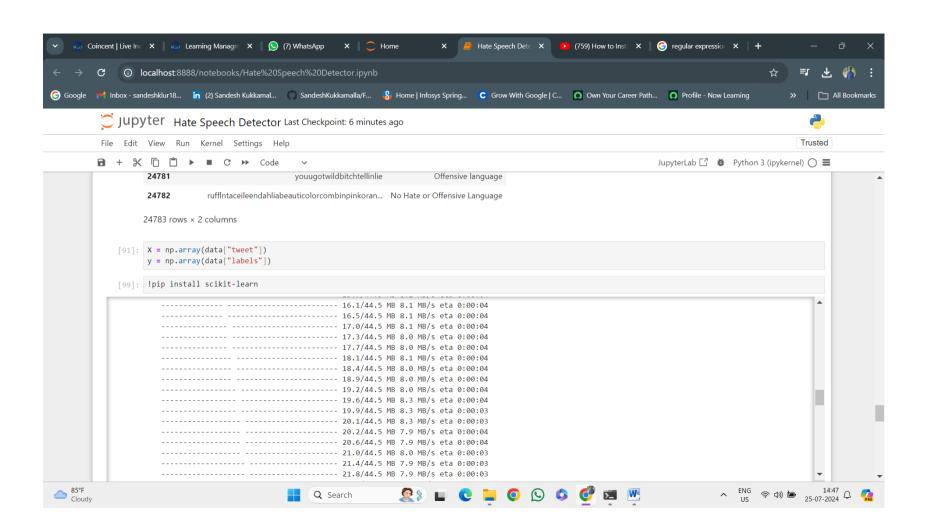


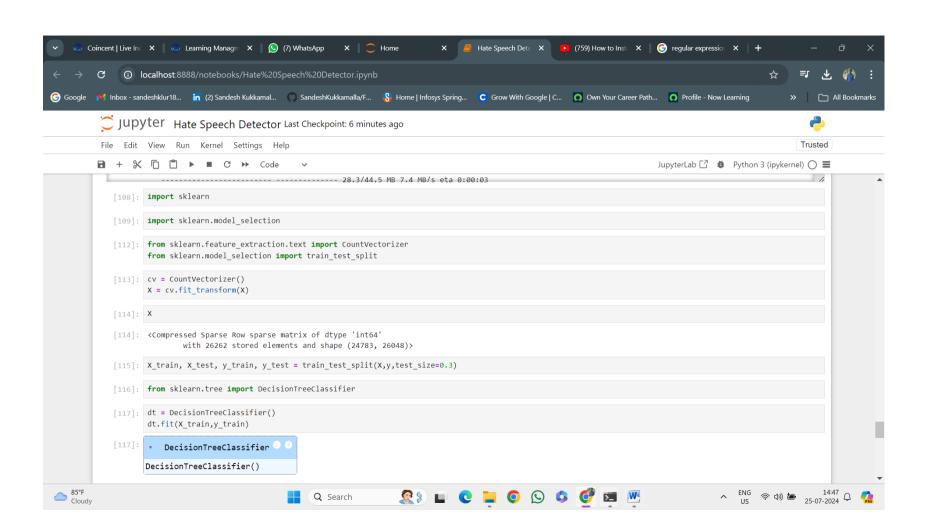


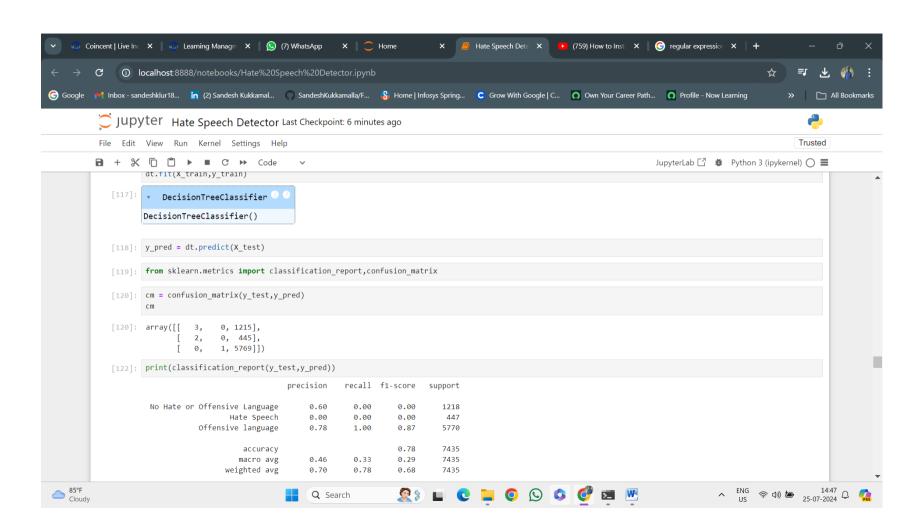


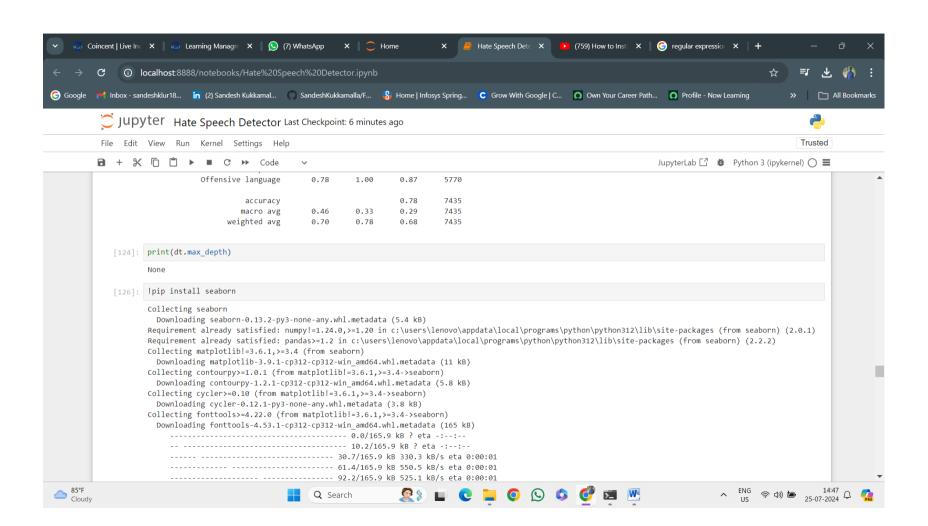


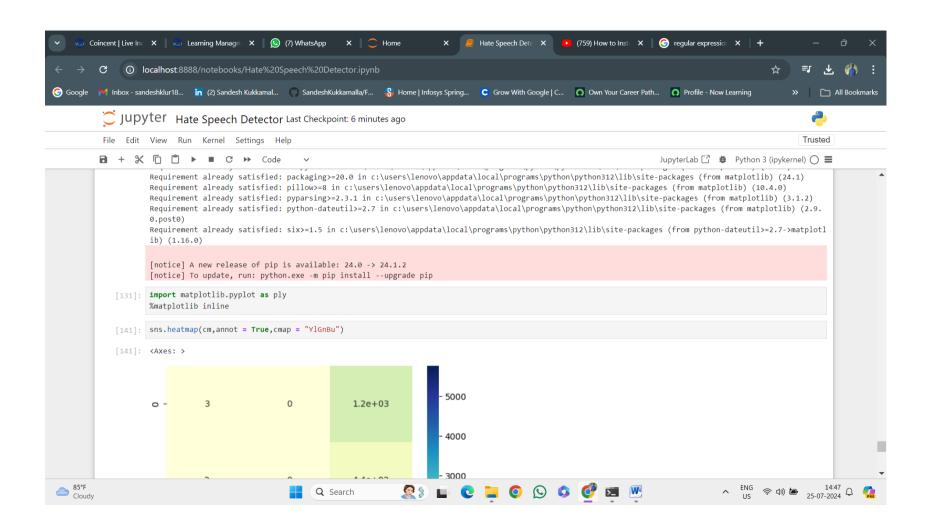


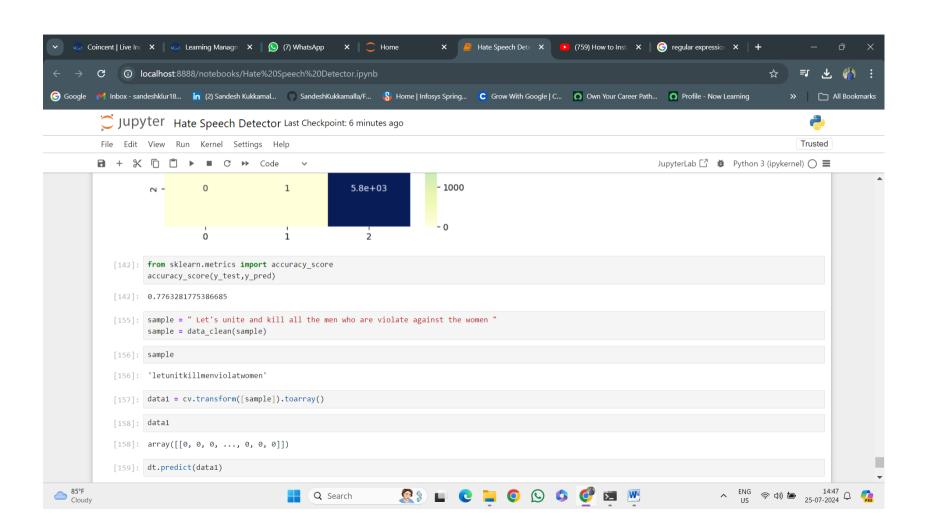


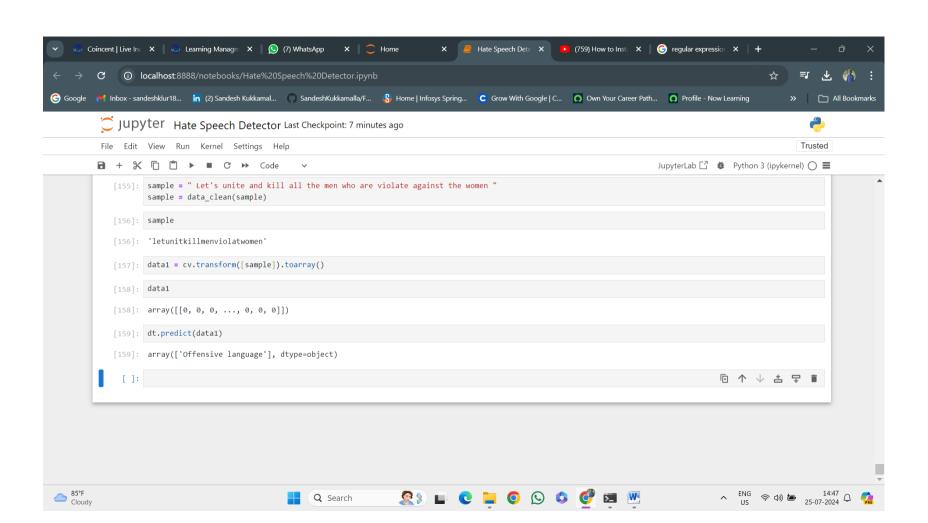




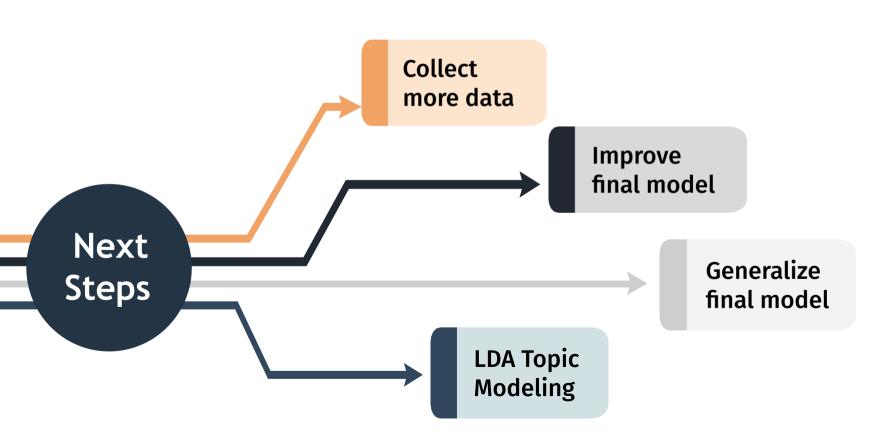








### **CONCLUSION**



### Thank You!