

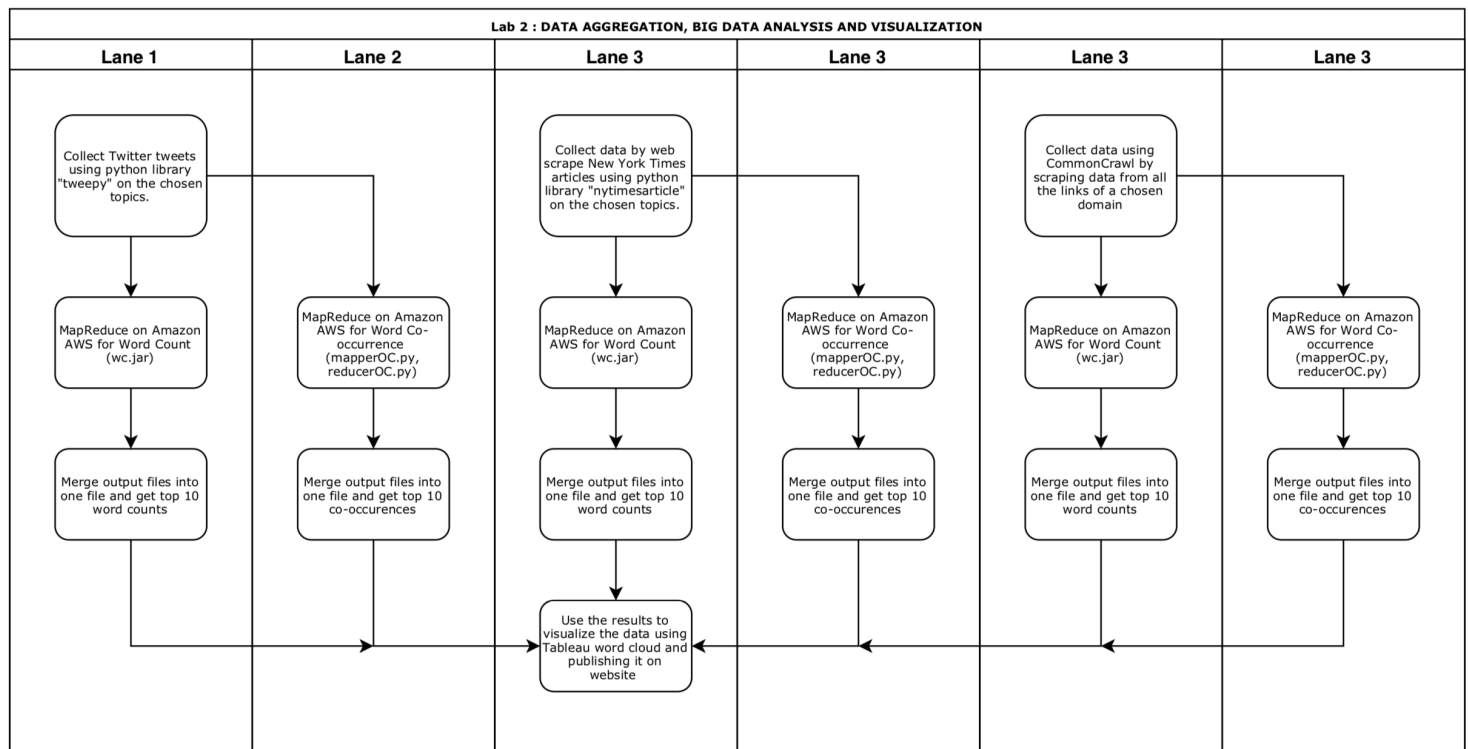
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
UNIVERSITY AT BUFFALO**

**DATA INTENSIVE COMPUTING**

**Lab 2 : DATA AGGREGATION, BIG DATA ANALYSIS  
AND VISUALIZATION**

**AKHIL AMIT SENROY  
UBIT : AKHILAMI  
PERSON # : 50288588**

## LAB 2 : FLOW DIAGRAM

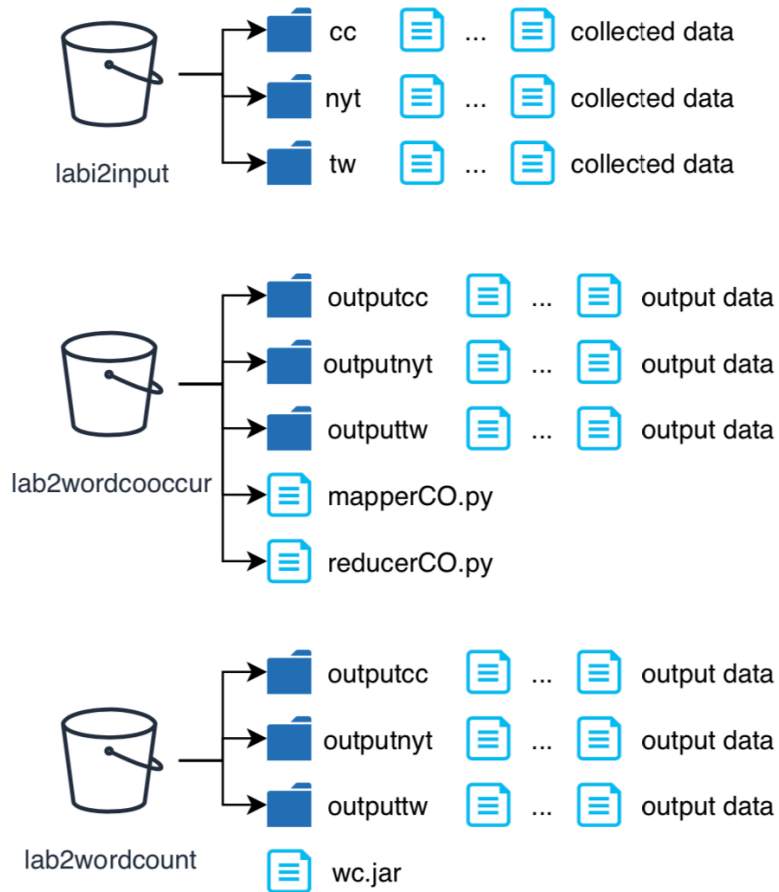


**Chosen Topics :** "music", "song", "guitar", "violin", "piano", "sing", "orchestra"

### Python Libraries Used :

- import tweepy
- from nytimesarticle import articleAPI
- import requests
- import pandas as pd
- import csv
- import time
- import os
- import glob
- from os.path import join, getsize
- from nltk.tokenize import word\_tokenize
- from nltk.corpus import stopwords
- from nltk.stem.porter import PorterStemmer

## Amazon AWS : S3 Directory Structure



## DATA VISUALIZATION

Twitter - Word Count

http sing music violin  
play orchestra song  
guitar the piano

F1

- guitar
- http
- music
- orchestra
- piano
- play
- sing
- song
- the
- violin

Twitter - Word Co-occurrence

song|song  
sing|song music|gt play|violin  
play|guitar music|video  
music|best music|one  
guitar|solo song|http

F1

guitar|solo  
music|best  
music|gt  
music|one  
music|video  
play|guitar  
play|violin  
sing|song  
song|http  
song|song

New York Times - Word Count

also time play  
album  
work music perform  
year but song

F1

album  
also  
but  
music  
perform  
play  
song  
time  
work  
year

New York Times - Word Co-occurrence

song|video  
play|music song|like  
music|listen music|festiv  
piano|concerto  
play|guitar music|director  
jazz|happen music|video

F1

jazz|happen  
music|director  
music|festiv  
music|listen  
music|video  
piano|concerto  
play|guitar  
play|music  
song|like  
song|video

CommonCrawl - Word Count

fieldalso artistlike  
piano music playlist  
gettime way

F1

also  
artist  
field  
get  
like  
music  
piano  
playlist  
time  
way

music|data music|industri  
music|releas music|project  
music|product  
music|content music|video  
music|conceiv  
music|diy music|manag

F1

music|conceiv  
music|content  
music|data  
music|diy  
music|industri  
music|manag  
music|product  
music|project  
music|releas  
music|video