# Report on Warm-up project PDM -Spring 2021

**By:** Sai Teja Chennu (16314417)

Anusha Yanamala (16317767)

Aravind Yanamala (16315604)

Chaitanya Tummala (16315816)

Amarnath Reddy Tatireddy (16314179)

#### **Introduction:**

A histogram is basically used to represent data provided in a form of some groups. It is an accurate method for the graphical representation of numerical data distribution. It is a type of bar plot where the X-axis represents the bin ranges while the Y-axis gives information about frequency. It can be almost any type of data. The written data is transposed onto a chart that has vertical blocks; the number of blocks depends on the categories of data collected.

## **Project Description:**

Generating a Histogram of the size of news articles under the news category 'US politics'.

# **Installation Steps:**

- 1. Importing required libraries like pandas, nltk.
- 2. Download stopwords using nltk library i.e., nltk.download('stopwords').

3. Mounting google drive.

#### Task1:

Steps to read the text file for extracting words and storing the text in list as shown below:

- Reading the data in the NY times text file which is in the path /content/drive/MyDrive/Warm-up Project\_Prin of Big Data Mgmt/nytimes\_news\_articles.txt
- Adding the text to CSV file to perform operations.

Create column doc\_data for storing the text in the form of list.

And Stopwords downloaded from the nltk package and stored in stop(list) variable.

### Task2:

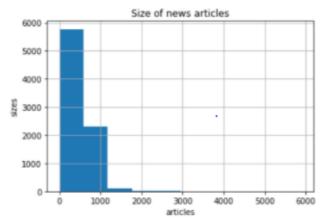
Removing stop words from the list in the article file.



The above diagram displaying the first five rows with out stop words and word count.

#### Task3:

Plotting the Histogram size of news articles with a number of words in each article belongs to the US Politics using pandas object. DataFrame The pandas object holding the data.



The above figure shows that X-axis represent the No.of articles and Y-axis represent the size of the article after removing the stopswords.

#### GitHub Url:

https://github.com/chennusaiteja/Computer-Science-5540-0001-Prin-of-Big-Data-Mgmt/tree/main/Warm-up%20Project\_histogram

#### Wiki Url:

https://github.com/chennusaiteja/Computer-Science-5540-0001-Prin-of-Big-Data-Mgmt/wiki/Warmup-Project-Histogram