**Principles of Data Science**

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**Assignment 3**

**Answers:**

Initial loading of the raw dataset involves preparing the tweets data in order to make it available for analysis.

**Loading the raw data:**

Graphical user interface, text, application, email

Description automatically generated

**Preprocessing the data:**

Graphical user interface, text, application

Description automatically generated

1. **Now, Converting the entire text corpus into tokens.**

**Loading the cleaned preprocessed data:**

Graphical user interface, text, application, email

Description automatically generated

**Converting the text corpus into tokens:**

**Graphical user interface, text, application

Description automatically generated**

**Background pattern

Description automatically generated with medium confidence**

1. **Removing all stop words from the data**

**Graphical user interface, text, application

Description automatically generated**

**A picture containing text

Description automatically generated**

1. **Counting the words frequencies**

Frequency of occurrence of filtered tokens in the corpus:

Graphical user interface, text, application, chat or text message

Description automatically generated

Most frequently occurring words in the corpus:

**Graphical user interface, text

Description automatically generated**

Representing the top 30 frequent words over the plot:

**Graphical user interface, text, application

Description automatically generated**

**Chart, histogram

Description automatically generated**

1. **Now,we are Creating the word cloud for visual representation of frequency of tokens.**

Generating a word cloud using the filtered tokenized vector of the text corpus:

**A picture containing text

Description automatically generated**

**Word Cloud:**

**Text

Description automatically generated**