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niladri wordcloud

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Project Word Cloud Application

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Overview

This project takes words from a text file and creates a word cloud image with the appropriate words.

Reason Behind the Project

In the quarantine period I noticed there is a trending thing going on called word cloud.

So I decided to create a word cloud application to get an appropriate word cloud image.

This is a project based on simple Image Processing.

So I think that it is a good project for my CV also.

Goals

To create a word cloud image from a text file.

Specifications

Modules/Tools/Libraries:

os => To access the operating system. I.e, to operate with directories, operate with files etc.

cv2 => OpenCV module : It is a high level image processing library. It is used for Computer Vision works mainly.

numpy => NumPy is a Python library used for working with arrays and numerical calculations. It also has functionalities for working with the domain of linear algebra, fourier transform, and matrices.

random => To get random things.

   - All the libraries or modules are cross platform modules.

Paths:

The path of the required file and directories are initialized in the program.

Basic Structures and Workflow:

   1. Read text from a text file.

   2. Remove unnecessary words and punctuation with white spaces.

   3. Create a blank image with some solid background color.

   4. Arrange the selected words in a particular location in the image.

   5. Then save the image.