

Topic analysis is a Natural Language Processing (NLP) technique that allows us to automatically extract meaning from texts by identifying recurrent themes or topics. Topic analysis models enable you to sift through large sets of data and identify the most common and most important topics in an easy, fast, and completely scalable way.

Topic analysis (also called topic detection, topic modelling, or topic extraction) is a machine learning technique that organizes and understands large collections of text data, by assigning “tags” or categories according to each individual text’s topic or theme.

Topic analysis uses natural language processing (NLP) to break down human language so that you can find patterns and unlock semantic structures within texts to extract insights and help make data-driven decisions.

In this project I had build a application which detects the topics from paragraphs with their probability of occurring rate of it. I have written some html codes in sublime text as well as flask to render the application in the browser and NLP algorithm to make the text readable by the machine and imported the needed libraries

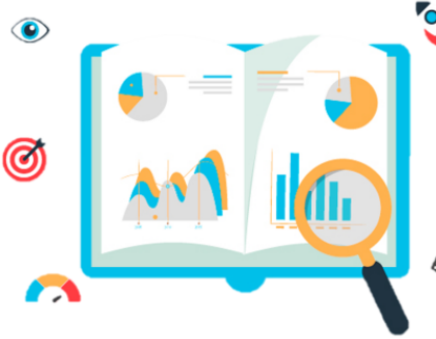
These are the screenshots which I got by running the application

[Automated Topic Tagging](#)[Home](#)

Detect and generate human like topics for the given text.

Topic generation and tagging may be a common task for us, but it is a huge challenge for computers, mainly because computers do not understand languages. How many applications will benefit if computers start to understand text like humans? With this tool, news feeders can easily classify their contents and advertisers can also place ads on the web in a more relevant way, matching the content of web pages to the advertiser's industry.

[Get started by choosing an article or text](#)[Generate Topics](#)



Detected Topics are..

Type	Probability
friend	0.2376527
work	0.2247595
human	0.1969640
bad	0.1969640
treat	0.3388263
time	0.1688263
child	0.1688263
good	0.2685346
disease	0.1688263

These are the necessary libraries I used for my project

```
1 from flask import Flask,render_template,request
2 import numpy as np
3 import re
4 import requests
5 import json
6 import csv
7 import pandas as pd
8 import json
9 import csv
```