

## Web Summarizer – Searching a keyword or write summary word by word.

### Day – 5

#### Code

##### App.py -

```
from flask import Flask, request, render_template
import requests
from bs4 import BeautifulSoup
app = Flask(__name__)

# 1. Extract visible text from website
def extract_text_from_url(url):
    try:
        response = requests.get(url, timeout=10)
        soup = BeautifulSoup(response.text, "html.parser")
        # Remove non-content elements
        for tag in soup(["script", "style", "header", "footer", "nav", "noscript", "svg", "img", "aside"]):
            tag.decompose()
        text = soup.get_text(separator=" ", strip=True)
        return text
    except Exception as e:
        return f"Error fetching content: {str(e)}"

# 2. Search for keyword in sentences
def keyword_search(text, keyword):
    keyword = keyword.lower()
    sentences = text.split('.')
    results = []
    for sentence in sentences:
        sentence = sentence.strip()
```

```

        if len(sentence) > 20 and keyword in sentence.lower():
            results.append("• " + sentence)

    return "\n".join(results) if results else "❌ No matching content found."

# 3. Main route
@app.route("/", methods=["GET", "POST"])
def index():
    result = ""

    if request.method == "POST":
        url = request.form.get("url")
        keyword = request.form.get("keyword")

        if url and keyword:
            content = extract_text_from_url(url)
            result = keyword_search(content, keyword)

    return render_template("index.html", result=result)

if __name__ == "__main__":
    app.run(debug=True)

```

### index.html –

```

<!DOCTYPE html>

<html>

<head>

    <title>Keyword Extractor</title>

    <style>

        body { font-family: Arial; padding: 40px; }

        input, button { width: 80%; padding: 10px; margin-top: 10px; }

        .box { margin-top: 30px; padding: 20px; background: #f3f3f3; border-radius: 8px; }

    </style>

</head>

<body>

```

## <h2> Website Keyword Extractor</h2>

<form method="POST">

<label><b>Enter Website URL:</b></label><br>

<input type="text" name="url" placeholder="https://example.com" required><br>

<label><b>Enter Keyword:</b></label><br>

<input type="text" name="keyword" placeholder="e.g. AI, Python, network"  
required><br>

<button type="submit">Search</button>

</form>

{% if result %}

<div class="box">

<h3>  Results:</h3>

<pre>{{ result }}</pre>

</div>

{% endif %}

</body>

</html>

## Output –

### Website Keyword Extractor

Enter Website URL:

https://example.com

Enter Keyword:

e.g. AI, Python, network

Search

#### Results:

• Guru Nanak Dev Engineering College, Ludhiana | Skip to Main Content About Us Principal Desk Administration Vision Mission Goals History Ins

