### **LABORATORY REPORT**

# **Application Development Lab** (CS33002)

## **B.Tech Program in CSE**

Submitted By

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Spring 2024-2025

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Exp No.	Title	Date of Experiment	Date of Submission	Remarks
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3.	Pneumonia Detection using CNN			
4.	Regression Analysis for Stock Prediction	30/01/2025	06/02/2025	
5.	Conversational Chatbot with Any Files	06/02/2025	20/02/2025	
6.	Web Scraper using LLMs	13/03/2025	20/03/2025	
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8.				
9.	Open Ended 1			
10.	Open Ended 2			

Lab Number	8
Experiment Number	6
Experiment Title	Web Scraper using LLMs
Date of Experiment	13/03/2025
Date of Submission	20/03/2025

#### 1. Objective:-

To create a web scraper application integrated with LLMs for processing scraped data.

#### 2. Procedure:- (Steps Followed)

- 1. Use Python libraries like BeautifulSoup and Requests to scrape web data.
- 2. You can also use LlamaIndex for Web Scraping and Ollama for open ended LLMs.
- 3. Integrate LLMs to process and summarize the scraped information.
  - 4. Develop a Flask backend for handling scraping tasks and queries.
- 5. Create an HTML/CSS frontend to initiate scraping (like the web page to scrape) and display results.
- 6. You can also take a topic and search the web for a web page and then scrape it.

#### Code:-

```
indexhtmd U appray 1.M X

papery > ...

from flask import Flask, request, [sonis]

import requests

from basi import BeautifulSoup

from youtube transcript_apl import YouTubeTranscriptApl

from youtube transcript_apl import YouTubeTranscriptApl

from youtube transcript_apl import YouTubeTranscriptApl

from detackduckge, search import DOSS # Corrected import

import google.generativeai as genal # Using Gemini API for LLM-based text processing

from dotorw import load_dotenv

import os

from flask_cons import CORS

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from flask_cons import dod dotenv

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from flask_consing

import requests

import requ
```

## 4. Results/Output:-

#### 5. Remarks:-

Signature of the Student

(Name of the Student)

Signature of the Lab Coordinator

(Name of the Student)