**Problem Statement:**

**Build an AI-powered Course & Internship Assistant that scrapes course schedules and internship details from HTML pages using BeautifulSoup and Selenium, and allows users to interact with the extracted information through a natural language chatbot interface using a local Ollama LLaMA3 model via Streamlit.**

**Data Scraping**

**Objective:**

Extract structured data from website:

* <https://sunbeaminfo.in/>
* <https://admission.sunbeaminfo.com/aspx/CourseSchedule.aspx>
* <https://sunbeaminfo.com/>

**Tools:**

* **BeautifulSoup**
* **Selenium**

**Tasks:**

1. Load and parse both HTML files.
2. Extract:
   * **Course Schedule Table** with fields: Course, Batch, Location, Total Fee, Status, Start Date, End Date, Timings.
   * **Internship Table** with fields: Technology, Aim, Prerequisite, Learning, Location.
3. Clean and convert data to Pandas DataFrames.
4. Display the data for verification.

**Chatbot with Ollama**

**Objective:**

Build an interactive chatbot to answer questions about the scraped internship and course data.

1 Using RAG(Vector Retrieval (ChromaDB + Embeddings))

2. Multi-Agent AI

|  |  |
| --- | --- |
| **CourseFinderAgent** | (Answers about schedule, location, fees) |

|  |  |
| --- | --- |
| **InternAdvisorAgent** | (Answers about prerequisites, outcomes |

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**PGCourses(Using RAG download PDF from https://sunbeaminfo.com)**

**Tools:**

* **Ollama (LLaMA3 or Mistral//Llama3 etc )**: For local LLM inference.
* **Streamlit**: To build the UI.
* Display chatbot output on the Streamlit UI.

**Sample Questions to Ask the Chatbot:**

| **Category** | **Sample Questions** |
| --- | --- |
| 1. Internship Info | - What are the prerequisites for the Python internship? - Where is the Machine Learning internship conducted? - What can I learn in the JavaScript internship? |
| 2. Course Info | - When does the Java course start? - What is the fee for the Angular batch? - Where is the C++ course being held? |
| 3. Scheduling | - Which courses start in July? - Are there any ongoing batches for Data Science? - What is the duration of the .NET course? |
| 4. Comparative | - Compare Java and Python internships based on learning outcomes. - Which courses are available in Pune? |

**Optional**

**Upload resume and get course/internship suggestions (GenAI resume matching).**

**Save scraped data to a database and built a chatbot to generate querry**

* “Show all internship programs in Pune.”
* “List all courses starting in July.”
* “What are the timings for the Java batch?”
* “Which internships require Python as a prerequisite?”