# **Deal Finder via Web scraping**

Built an end-to-end data pipeline that:

- Scrapes data from multiple sources related to Green Steel.
- Summarizes the scraped content using LLM models.
- Stores the summarized articles.
- Exposes an API using FastAPI to serve the data.

Data Sources → Scraping → Summarization → Storage → Serving API

# **Main Components & Files**

#### 1. Data Ingestion:

Directory: ingest/

Main Files: news scraper.py, rss scraper.py, podcast scraper.py etc.

Purpose:

- Scrape different sources (Google News, RSS feeds, podcasts, events, tenders).
- Collect raw articles.

Functions used:

- get articles from google news()
- get articles from rss()
- get\_podcast\_data() etc.

#### 2. Summarization

Directory: llm/

Main Files:

- openai summarizer.py
- local summarizer.py

Purpose:

- Send raw articles to LLM (OpenAI or Local Model).
- Generate clean summaries of each article.

Functions used: summarize article()

# 3. Pipeline Orchestration

File: run pipeline.py

Purpose:

- Load config.
- Call scrapers.
- Call summarizer.
- Aggregate all data.

Write results to:

- o output/articles.json (for persistent storage)
- o storage/chroma store (vector storage using Chroma DB)

Functions used:

- run scrapers()
- run summarizers()
- save articles to file()
- store articles in chroma()

# 4. Storage

# 4.1 Local File Storage

File: output/articles.json

Purpose: Simple JSON file holding full articles and summaries.

# 4.2 Vector Storage

Directory: storage/

File: chroma\_store.py

Purpose:

• Store embeddings in Chroma DB for semantic search.

• Load articles efficiently.

Functions used: get\_articles()

# 5. Serving API

Directory: api/

File: main.py

# Purpose:

• Expose your processed data to the outside world via HTTP API.

• Allow users (or your frontend) to query articles.

# **Main Routes:**

Endpoint	Purpose
/	Health check
/articles	Query from Chroma
/json_articles	Load from JSON file

Functions used:

- load articles() reads from output/articles.json
- get articles() reads from chroma store

