**AI Powered Web Scraping with Jina,**

Google Sheets and OpenAI \_ the EASY way

This workflow — “OpenAI \_ the EASY way” — demonstrates a simple, no‑code method for extracting structured data from a webpage and storing it in a Google Sheet using n8n together with OpenAI. Here’s how it works:

1. **Triggering the Workflow**  
   • A manual trigger (“When clicking ‘Test workflow’”) lets you run the workflow on demand, making it easy to test.
2. **Fetching the Source Data**  
   • The “Jina Fetch” node is configured to retrieve raw HTML data from a target URL (in this example, a page from [books.toscrape.com](http://books.toscrape.com/)).  
   • It’s set to allow unauthorized certificates so that any certificate issues won’t block the retrieval.
3. **Extracting Information with OpenAI**  
   • The “Information Extractor” node takes the raw data (provided by Jina Fetch) and uses a custom system prompt to extract only the relevant details.  
   • The prompt instructs the node to output a JSON array under a key called “results,” where each item (representing a book) should include attributes like title, price, availability, product URL, and image URL.
4. **Splitting the Extracted Results**  
   • The “Split Out” node takes the array from the Information Extractor (specifically from the field output.results) and splits it so that each book record is processed as an individual item.
5. **Saving Data to Google Sheets**  
   • The “Save to Google Sheets” node appends each individual record to a designated Google Sheet.  
   • Its mapping is set up to automatically match the fields from each extracted record (name, price, availability, image, link) with corresponding columns in the sheet.
6. **Optional – OpenAI Chat Model Node**  
   • An “OpenAI Chat Model” node (using the “Derek T” credentials in this template) is also part of the workflow. Although its role here is minimal, it illustrates how you can further integrate conversational AI to refine or review the extracted information.
7. **Guidance and Documentation**  
   • A “Sticky Note” (Sticky Note5) provides a link to a YouTube tutorial and a sample Google Sheet, which can help you get started and understand how the workflow operates end‑to‑end.