AI Developers

Practice

THE INSTITUTE
Empowering Israel's Future Through AI

DSPy

Declarative Self-improving Python

Basic Usage

DSPy Basics

This notebook demonstrates a minimal DSPy Signature with Predict, plus a Chain-of-Thought variant. It uses Gemini via `dspy.LM` and expects `GOOGLE_API_KEY` in a `.env` at the project root.

```python
# Setup: imports and LM configuration (Gemini)
import os
from dotenv import load_dotenv
import dspy

load_dotenv()
api_key = os.getenv("GOOGLE_API_KEY")
if not api_key:
    raise ValueError("GOOGLE_API_KEY not found. Create a .env with GOOGLE_API_KEY=...")

lm = dspy.LM("gemini/gemini-2.5-flash", api_key=api_key, max_output_tokens=512)
dspy.configure(lm=lm)
print("DSPy configured with Gemini.")
```
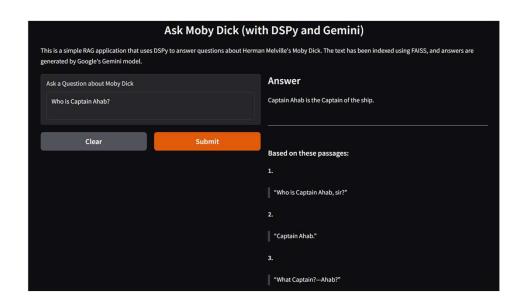
Exercise – DSPy Book RAG

עליכם להוריד ספר (או ספרים)
כלשהו מהאתר:
https://www.gutenberg.org/
ועליו לבנות RAG בעזרת DSPy.

THE;INSTITUTE

תודה!