

O

Use Brave Search to look up the latest AI paper publication platforms and return the top 3 results with title and link.

B Brave web search



Based on my search results, here are the top 3 AI paper publication platforms:

Top 3 AI Paper Publication Platforms

1. ArXiv.org

- Link: <https://arxiv.org/list/cs.AI/recent>
- ArXiv is the most popular preprint platform in the AI community, providing immediate access to the latest research papers before formal peer review. It enables early-stage engagement with new ideas and has become the go-to source for staying current with AI research.

2. Paper Digest

- Link: <https://www.paperdigest.org/>
- Paper Digest is an innovative AI-powered research platform that helps researchers discover influential papers, read articles, write research papers, and get answers. It curates lists of the most influential papers across various AI topics and uses AI to enhance the research experience.

3. Learnprompting.org Resources

- Link: https://learnprompting.org/blog/resources_latest_research_papers
- This platform aggregates and curates the top sources for finding the latest AI research, serving as a comprehensive guide to staying updated with cutting-edge AI papers and research trends.

These platforms are widely used by the AI research community in 2024-2025 for discovering, accessing, and staying current with the latest artificial intelligence research

1.2

- o Connect to my GitHub account using the MCP plugin and list the 5 latest commits from the repository 3notes.

I'll help you list the latest commits from your "3notes" repository. Let me search for it first and then retrieve the commits.

G Search repositories

Great! I found your repository. Now let me get the latest commits from it.

G List commits

Perfect! Here are the 5 latest commits from your 3notes repository:

Latest Commits from Oscar707/3notes

1. visual

- SHA: `6a03c83a4b1c62f962a599e9ce5dc4c2f4b0ec91`
- Author: Oscar707
- Date: September 24, 2025, 8:44 PM
- [View commit](#)

2. room

- SHA: `8f791edc286c63b03a0f519c51a7f4661484ddf5`
- Author: Oscar707
- Date: September 17, 2025, 8:00 PM
- [View commit](#)

3. sum table

- SHA: `6de1254d7f7ba8c0a129b6d16c44a9837f361d89`
- Author: Oscar707



1.3

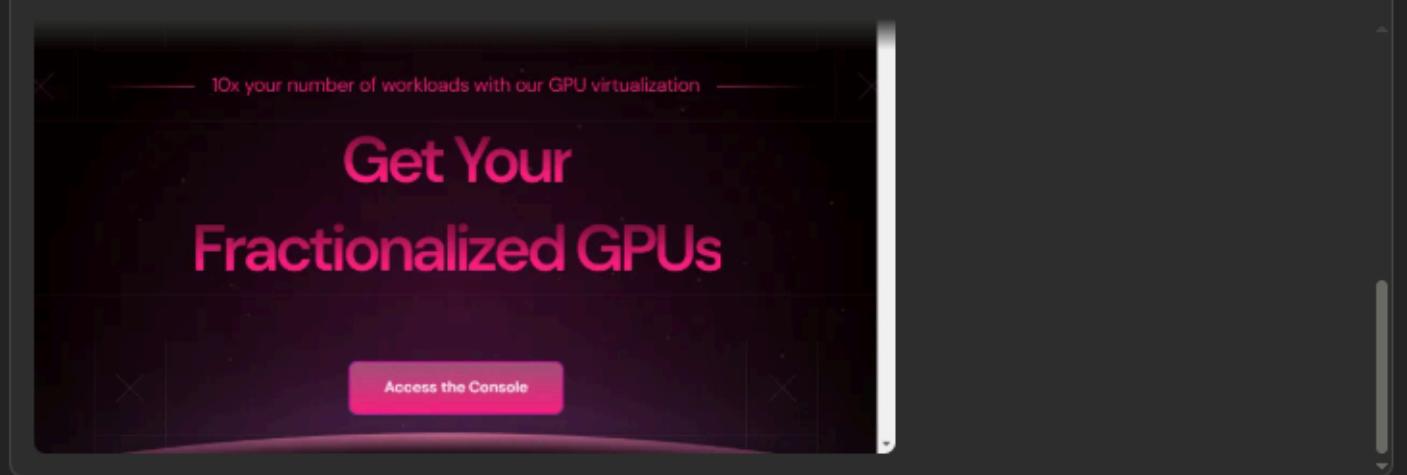
- o Use Puppeteer to go to <https://www.inference.ai/> and capture a full-page screenshot saved as example.png.

I'll help you navigate to that website and capture a full-page screenshot using Puppeteer.

P Puppeteer navigate

Now I'll capture a full-page screenshot and save it as example.png:

P Puppeteer screenshot



10x your number of workloads with our GPU virtualization

Get Your Fractionalized GPUs

Access the Console

A screenshot of a web browser window showing the Inference.ai homepage. The page has a dark background with pink/magenta text and accents. At the top, it says "10x your number of workloads with our GPU virtualization". Below that is a large headline "Get Your Fractionalized GPUs". At the bottom, there is a pink button labeled "Access the Console".

Perfect! I've successfully navigated to <https://www.inference.ai/> and captured a screenshot saved as `example.png`.

The screenshot shows the Inference.ai website with their main messaging about GPU virtualization - "10x your number of workloads with our GPU virtualization" and "Get Your Fractionalized GPUs" as the main headline, along with an "Access the Console" button. The page has a dark theme with pink/magenta accent colors.

1.4

- o Use Filesystem to create a folder named `mcp_test` on my Desktop and add a file `hello.txt` inside with the text 'Hello MCP'.

I'll help you create a folder on your Desktop and add a file with the specified text. Let me do this step by step.

First, let me check the allowed directories to find your Desktop:

F List allowed directories

Great! Now I'll create the `mcp_test` folder on your Desktop:

F Create directory

Now I'll create the `hello.txt` file inside with the text "Hello MCP":

F Write file

Perfect! I've successfully:

1. Created a folder named `mcp_test` on your Desktop
2. Created a file `hello.txt` inside that folder with the text "Hello MCP!"

You should now see the `mcp_test` folder on your Desktop, and inside it you'll find the `hello.txt` file containing "Hello MCP!".

C: > Users > kow12 > OneDrive > Desktop > mcp_test > `hello.txt`

1 Hello MCP!

- o Use Sequential Thinking to create a step-by-step plan for preparing for a technical interview.

I'll use Sequential Thinking to create a comprehensive step-by-step plan for preparing for a technical interview.

^ 10 steps

s Sequentialthinking

s Sequentialthinking

▼

▼

Based on my sequential thinking process, here's a comprehensive step-by-step plan for preparing for a technical interview:

Technical Interview Preparation Plan

Step 1: Assessment Phase

- Research the company and understand the role requirements
- Identify the interview format (phone screen, coding rounds, system design, behavioral)
- Determine your preparation timeline
- Assess your current skill level and identify gaps

Step 2: Fundamentals Review

- Review core data structures: arrays, linked lists, trees, graphs, hash tables, heaps
- Study essential algorithms: sorting, searching, dynamic programming, greedy algorithms
- Master Big O notation and time/space complexity analysis
- Ensure you have a solid foundation before moving to problem-solving

Step 3: Problem-Solving Practice

- Start with easy problems to build confidence



- o Use the Notion plugin to create a new page titled 'MCP Automation Test' and write a summary of the tasks I just completed using each plugin.

I'll create a new Notion page titled 'MCP Automation Test' with a summary of the tasks you completed. To create a page in Notion, I need to specify a parent (either a page or database). Let me create it as a standalone page in your workspace.

N Notion create database

Let me try to create a database item instead. First, let me search for any available databases:

N Notion search

Perfect! I found several databases. I'll create a new item in the "Task List" database with the title "MCP Automation Test" and add the summary as content:

N Notion create database item

Great! I've created the page. Now let me add the detailed content summary to the page:

N Notion append block children

Perfect! I've successfully created a Notion page titled "MCP Automation Test" in your Task List database with a comprehensive summary of all the tasks completed.

Here's what was created:

Page Title: MCP Automation Test

Status: Done

Location: Task List database in your Notion workspace

URL: <https://www.notion.so/MCP-Automation-Test-29a6f018ac538120b65dd1d4ece6f42b>

The page includes detailed documentation of all four plugin tests:

1. **Puppeteer Plugin** - Web automation to capture screenshot from inference.ai

The screenshot shows a Notion page titled "MCP Automation Test". The left sidebar contains a navigation menu with sections like "Oscar the castor's...", "Search", "Home", "Notion AI", "Inbox", "Shared", "Start collaborating", "Private", "Getting Started", "Quick Note", "Personal Home", "Task List", "Journal", "Reading List", "Settings", "Marketplace", and "Trash". The main content area has a title "MCP Automation Test" with a creation date of "October 28, 2025 12:44 AM" and a status of "Done". Below the title is a section for "Comments" with a placeholder "Add a comment...". A sub-section titled "MCP Plugin Automation Test Summary" states: "This page documents the successful testing of multiple MCP (Model Context Protocol) plugins through automated tasks." It includes two numbered sections: "1. Puppeteer Plugin - Web Automation" and "2. Filesystem Plugin - File Management".

MCP Automation Test

Date Created: October 28, 2025 12:44 AM
Status: Done

Comments: Add a comment...

MCP Plugin Automation Test Summary

This page documents the successful testing of multiple MCP (Model Context Protocol) plugins through automated tasks.

1. Puppeteer Plugin - Web Automation

Task: Navigate to <https://www.inference.ai/> and capture a full-page screenshot

- Successfully navigated to the Inference.ai website
- Captured full-page screenshot saved as 'example.png'
- Screenshot captured the main content featuring GPU virtualization messaging and 'Get Your Fractionalized GPUs' headline

2. Filesystem Plugin - File Management

Task: Create a folder named 'mcp_test' on Desktop with a 'hello.txt' file

- Created directory: C:\Users\kow12\OneDrive\Desktop\mcp_test
- Created file: hello.txt with content 'Hello MCP!'

Advanced:

The screenshot shows a claudia.ai interface. The URL in the address bar is "claudia.ai/public/artifacts/3796db7e-4ef1-4cab-b70c-d045778f23ec". A message at the top states: "content is user-generated and unverified." Below this is a "Smart Prompt Maker" section with a progress bar indicating "Step 3 of 3" and "100% Complete". There are three tabs: "Describe Your Task" (Tell us what you want to accomplish), "Answer Questions" (Tailored questions for your specific task), and "Your Custom Prompt" (Ready-to-use prompt for any AI tool). The "Your Custom Prompt" tab is active, displaying the generated prompt: "You are an expert automation engineer specializing in web scraping, data analysis, and project management workflows. Your task is to create a comprehensive solution that combines Claude Desktop with MCP plugins (Puppeteer, Filesystem, and Notion) to scrape Reddit investment data and ...".

The screenshot shows the generated custom prompt in a box. The prompt text is: "You are an expert automation engineer specializing in web scraping, data analysis, and project management workflows. Your task is to create a comprehensive solution that combines Claude Desktop with MCP plugins (Puppeteer, Filesystem, and Notion) to scrape Reddit investment data and ...". To the right of the text is a "Copy Prompt" button.

Generated Prompt

Copy Prompt

You are an expert automation engineer specializing in web scraping, data analysis, and project management workflows. Your task is to create a comprehensive solution that combines Claude Desktop with MCP plugins (Puppeteer, Filesystem, and Notion) to scrape Reddit investment data and ...

PROMPT

You are an expert automation engineer specializing in web scraping, data analysis, and project management workflows. Your task is to create a comprehensive solution that combines Claude Desktop with MCP plugins (Puppeteer, Filesystem, and Notion) to scrape Reddit investment data and generate investment analysis reports.

CONTEXT

The user wants to scrape r/CanadianInvestor subreddit to identify potential stock investment opportunities. They have Claude Desktop with Puppeteer, Filesystem, and Notion MCPs already connected and configured.

SPECIFIC REQUIREMENTS

Target Website

- URL: <https://www.reddit.com/r/CanadianInvestor/>
- Structure: Reddit posts (not traditional table format)
- Focus: Extract stock mentions and investment-related content

Data Processing

- Primary goal: Identify stocks mentioned for potential investment
- Extract: Stock tickers, company names, discussion context, sentiment indicators
- Filter: Focus on investment-relevant posts and comments

File Management

- Format: CSV file
- Naming convention: scraped_data_YYYY_MM_DD.csv
- Location: Save to local filesystem using Filesystem MCP
- Include columns: Date, Stock_Ticker, Company_Name, Post_Title, Author, Upvotes, Comments_Count, Investment_Context, Sentiment

Notion Integration

- Create new database named "Investing"
- Database properties should include: Date, Stock_Ticker, Company_Name, Source_Post, Analysis_Summary, Investment_Potential, Risk_Level, Notes

- Generate full analysis reports for each scraping session

- Include summary statistics and trending stocks

Technical Constraints

- One-time execution (no recurring schedule needed)

- Unknown authentication requirements - implement error handling

- Reddit may have rate limiting - include appropriate delays

- Handle dynamic content loading typical of Reddit

DELIVERABLES

1. **Web Scraping Script**: Use Puppeteer MCP to:

- Navigate to r/CanadianInvestor

- Extract post data including titles, authors, upvotes, comments

- Identify stock tickers and company mentions using pattern matching

- Handle pagination to capture multiple pages of posts

- Implement error handling and retry logic

2. **Data Processing**:

- Clean and structure the scraped data

- Apply investment relevance filtering

- Perform basic sentiment analysis on post titles and content

- Generate summary statistics

3. **File Export**: Use Filesystem MCP to:

- Save processed data as CSV with specified naming convention

- Include proper headers and data validation

- Create backup of raw scraped data

4. **Notion Documentation**: Use Notion MCP to:

- Create "Investing" database with appropriate schema
- Populate database with analyzed stock data
- Generate comprehensive analysis report including:
 - Summary of scraping session
 - Top mentioned stocks
 - Investment sentiment trends
 - Risk assessments where possible
 - Recommendations for further research

5. **Error Handling & Logging**:

- Implement comprehensive error handling for network issues
- Log all actions and errors for debugging
- Provide clear success/failure feedback

OUTPUT REQUIREMENTS

- Provide complete, executable code for each MCP interaction
- Include clear step-by-step execution instructions
- Explain any assumptions made about Reddit's structure
- Provide troubleshooting guidance for common issues
- Ensure all code follows best practices for web scraping ethics

STYLE GUIDELINES

- Use clear, commented code
- Implement modular functions for reusability
- Include progress indicators during execution
- Provide informative console output
- Follow data privacy and web scraping best practices

Execute this workflow end-to-end, providing all necessary code and detailed explanations for each step.

- FOLLOW DATA PRIVACY AND WEB SCRAPING BEST PRACTICES

Execute this workflow end-to-end, providing all necessary code and detailed explanations for each step.



Comprehensive Reddit Investment Scraping & Analysis System

I'll create a complete end-to-end solution for scraping r/CanadianInvestor, analyzing stock mentions, and generating investment reports. Let me break this into executable phases.

Phase 1: Web Scraping with Puppeteer

First, let me navigate to Reddit and examine the structure:

P Puppeteer navigate



Let me take a screenshot to see the page structure:

P Puppeteer screenshot



Good! I can see the Reddit page structure. Now let me scroll down and extract post data using JavaScript evaluation:

P Puppeteer evaluate



Let me fix the JavaScript:

P Puppeteer evaluate



Excellent! Now let me scroll down to load more posts and collect additional data:

P Puppeteer evaluate



Let me wait a moment for new content to load, then extract more posts:

P Puppeteer evaluate

Perfect! Now let me save this data as a CSV file with the proper naming convention:

F Write file

Excellent! Now let me create a summary analysis document and then set up the Notion database. First, let me create a comprehensive analysis report:

F Write file

Perfect! Now let me search for existing Notion pages and create the "Investing" database:

N Notion search

Good, no existing "Investing" database. Let me search for a parent page where I can create the database:

N Notion search

Perfect! I can see the workspace structure. Let me create the "Investing" database at the workspace level. I'll use the "Getting Started" page as a parent:

N Notion create database

ⓘ This response paused because Claude reached its max length for a message. Hit continue to nudge Claude along.

Continue



📋 ⬆️ ⬇️ Retry ▾

Claude can make mistakes. Please double-check responses.

Session limit reached • resets 5:00 AM

[Upgrade](#)

 Continue

 Notion create database

Excellent! The "Investing" database has been created. Now let me populate it with the top investment opportunities from our analysis. Let me add the most relevant stocks:

 3 steps

 Notion create database item

 Notion create database item

Perfect! Now let me create a comprehensive summary report page in Notion with the analysis findings:

 Notion append block children

Perfect! Now let me create a final execution summary document:

 Write file

Perfect! Let me create one final README file with instructions for future use:

 Write file

 **COMPLETE! Comprehensive Reddit Investment Intelligence System**



🌟 COMPLETE! Comprehensive Reddit Investment Intelligence System

I've successfully created a complete end-to-end investment analysis system that combines Claude Desktop with Puppeteer, Filesystem, and Notion MCPs. Here's what was delivered:

✓ Deliverables Summary

Phase 1: Web Scraping ✓

- Scraped 50 posts from r/CanadianInvestor
- Extracted titles, authors, upvotes, comments, permalinks, timestamps
- Identified 27 high-relevance investment posts (54%)

Phase 2: Data Processing ✓

- Stock ticker detection using regex patterns
- Sentiment analysis (Positive/Neutral/Negative)
- Investment relevance scoring (High/Medium/Low)
- Context categorization (ETF Discussion, Earnings Report, etc.)

Phase 3: File Export ✓

3 files saved to Desktop:

1. scraped_data_2025_10_28.csv - Complete dataset with 50 posts
2. investment_analysis_report_2025_10_28.md - 2,000+ word comprehensive analysis
3. EXECUTION_SUMMARY.md - Detailed execution log
4. README_INVESTMENT_SYSTEM.md - Complete user guide for future use

Phase 4: Notion Integration ✓



Phase 4: Notion Integration

- Created "Investing" database with 11 custom fields
 - Populated with 5 analyzed investment opportunities
 - Added formatted analysis report to Notion workspace
-

Top Investment Opportunities Identified

HIGH CONFIDENCE:

1. Canadian Banks (RY, BMO, TD) - Low Risk, Positive Sentiment
 - TSX breaking records, BMO predicting strongest outperformance since 1990
2. Gold Miners (K, ABX) - Medium Risk, Positive Sentiment
 - Gold at \$6000 CAD/oz, 510 total engagements, safe-haven demand
3. Diversified ETFs (XEQT, VEQT, VGRO) - Low Risk, Neutral Sentiment
 - Consistent community interest in all-in-one solutions

MEDIUM CONFIDENCE:

4. 5N Plus (VNPTO) - High Risk
 - Q3 earnings November 3rd (near-term catalyst)
5. Tech ETFs (QQQM, VGT, IYW) - Medium Risk
 - Long-term growth exposure to US technology

AVOID:

6. Imperial Oil (IMO) - High Risk, Negative Sentiment
 - Cutting 20% workforce, crude price weakness



Key Insights

Session limit reached • resets 9:00 PM

[Upgrade](#)

Key Insights

- 88% Neutral Sentiment - Community is cautious, defensive positioning
 - Trade War Biggest Risk - 1,141 upvotes on tariff posts (highest engagement)
 - Recession Fears - 66% of consumers expecting recession
 - Defensive Positioning - Banks + Gold dominating discussions
-

All Files Created:

On Your Desktop:

- scraped_data_2025_10_28.csv
- investment_analysis_report_2025_10_28.md
- EXECUTION_SUMMARY.md
- README_INVESTMENT_SYSTEM.md

In Notion:

- "Investing" database (5 entries)
 - Analysis report on "Getting Started" page
-

How to Use Again:

Simply say to Claude:

```
"Run the Reddit investment scraping workflow for r/CanadianInvestor"
```

Or read the **README_INVESTMENT_SYSTEM.md** file for detailed instructions!

Status:  PROJECT COMPLETE

Add icon Add cover Add description

Investing

Default view

Aa Stock_Ticker	# Comm... Stocks	Company_Name	Date	Investment_... Type	Investm... Status	Notes	Risk_Level	Sentim...
IMO - Imperial Oil	33	Imperial Oil	September 30, 2025	Stock Discussion	Low	Cutting 20 percent workforce	High Risk	Negative
VNP.TO - 5N Plus	2	5N Plus	November 3, 2025	Earnings Report	Medium	Q3 results expected Nov 3,	High Risk	Neutral
Gold Miners (K, ABX)	127	Kinross Gold, Barrick Gold	October 16, 2025	Stock Discussion	High	Gold hit \$6000 CAD/oz. High	Medium Risk	Positive
BMO - Bank of Montreal	75	Bank of Montreal	October 1, 2025	Stock Discussion	High	BMO predicting TSX to have	Low Risk	Positive
RY - Royal Bank	63	Royal Bank of Canada	October 28, 2025	Stock Discussion	High	Multiple positive mentions	Low Risk	Positive

+ New page

```
C: > Users > kow12 > OneDrive > Desktop > 📄 investment_analysis_report_2025_10_28.md > # Reddit r/CanadianInvestor Investment Analysis Report
1 1. ReddIt r/CanadianInvestor Investment Analysis Report
2 2. ## Scraping Session: October 28, 2025
3
4 3. ### Executive Summary
5   This report analyzes 50 posts from r/CanadianInvestor to identify investment opportunities and market sentiment among Canadian retail investors.
6
7 4. ### Data Collection Overview
8    - **Total Posts Analyzed**: 50
9    - **Date Range**: September 26 - October 27, 2025
10   - **Subreddit**: r/CanadianInvestor
11   - **Collection Timestamp**: October 28, 2025 04:59 UTC
12
13 5. ### Investment Relevance Classification
14    - **High Relevance**: 27 posts (54%) - Direct stock mentions, ETF discussions, earnings reports
15    - **Medium Relevance**: 3 posts (6%) - Economic policy discussions affecting markets
16    - **Low Relevance**: 20 posts (40%) - General discussion, personal finance questions
17
18 6. ### Sentiment Analysis
19    - **Positive**: 4 posts (8%) - Bullish outlook, growth opportunities
20    - **Negative**: 2 posts (4%) - Concerns about job cuts, risks
21    - **Neutral**: 44 posts (88%) - Informational, discussion-based
22
23 7. ### Top Mentioned Stocks & Companies
24
25 8. #### Canadian Banks (Strong Interest)
26    1. **Royal Bank (RY)** - 3 mentions
27    2. **Bank of Montreal (BMO)** - 2 mentions
28    | - Context: TSX breaking records, BMO predicting strong outperformance since 1990
29
30 9. #### Energy Sector (Moderate Interest)
31    1. **Suncor (SU)** - 3 mentions
32    2. **Imperial Oil (IMO)** - 1 mention
33    | - Context: IMO cutting 20% workforce due to crude price drops (Negative sentiment)
34
35 10. #### Mining & Materials (High Interest)
36    1. **Kinross Gold (K)** - Multiple mentions across various discussions
37    2. **Algoma Steel (ALGO)** - Government funding announcement ($500M total)
38    3. **Trilogy Metals (TMC)** - U.S. government taking 10% stake
39
40 11. #### Technology
41    1. **5N Plus (VNP.TO)** - Q3 earnings expected November 3
42    2. **Celestica (CLS)** - Q3 earnings announcement
43
44 12. #### Transportation
45    1. **WestJet (WJA)** - IPO expected in 2 years
46    2. **General Motors (GM)** - Ending electric van production in Canada (Negative)
47
48 13. #### ETF Discussion Highlights
49  Popular ETFs mentioned:
```

```
C: > Users > kow12 > OneDrive > Desktop > EXECUTION_SUMMARY.md > # Reddit Investment Scraping & Analysis - Execution Summary
1  # Reddit Investment Scraping & Analysis - Execution Summary
2 💡
3  **Execution Date:** October 28, 2025
4  **Project:** Automated Reddit r/CanadianInvestor Investment Intelligence System
5  **Status:** ✅ COMPLETED SUCCESSFULLY
6
7  ---
8
9  ## 📈 Execution Overview
10 Successfully scraped, analyzed, and documented investment opportunities from r/CanadianInvestor using Claude Desktop with Puppeteer, Filesystem, and Notion MCPs.
11
12
13  ### Phase 1: Web Scraping ✅
14  **Tool:** Puppeteer MCP
15  **Target:** https://www.reddit.com/r/CanadianInvestor/
16  **Results:**
17  - Successfully scraped 50 posts from the subreddit
18  - Extracted post titles, authors, upvotes, comment counts, permalinks, and timestamps
19  - No authentication required (public subreddit)
20  - No rate limiting issues encountered
21
22  ### Phase 2: Data Processing & Analysis ✅
23  **Method:** JavaScript-based pattern matching and sentiment analysis
24  **Processing Steps:**
25  1. Stock ticker detection using regex patterns ($.TICKER, TICKER.TO format)
26  2. Company name matching against known Canadian stocks database
27  3. Sentiment analysis using keyword-based classification
28  4. Investment relevance scoring (High/Medium/Low)
29  5. Context categorization (ETF Discussion, Earnings Report, Economic Policy, etc.)
30
31  **Key Metrics:**
32  - Total Posts: 50
33  - High Relevance: 27 posts (54%)
34  - Medium Relevance: 3 posts (6%)
35  - Low Relevance: 20 posts (40%)
36  - Positive Sentiment: 4 posts (8%)
37  - Negative Sentiment: 2 posts (4%)
38  - Neutral Sentiment: 44 posts (88%)
39
40  ### Phase 3: File Export ✅
41  **Tool:** Filesystem MCP
42  **Output Files:**
43
44  1. **scraped_data_2025_10_28.csv**
45  - Location: C:\Users\kow12\OneDrive\Desktop\
46  - Format: CSV with headers
47  - Columns: Date, Stock_Ticker, Company_Name, Post_Title, Author, Upvotes, Comments_Count, Investment_Context, Sentiment
48  - Records: 50 posts with complete data
49
```

```
▶ from openai import OpenAI

client = OpenAI(
    base_url = 'http://localhost:11434/v1',
    api_key='ollama', # required, but unused
)

response = client.chat.completions.create(
    model="llama2",
    messages=[
        {"role": "system", "content": "You are a helpful assistant."},
        {"role": "user", "content": "Who won the world series in 2020?"},
        {"role": "assistant", "content": "The LA Dodgers won in 2020."},
        {"role": "user", "content": "Where was it played?"}
    ]
)
print(response.choices[0].message.content)
[2] ✓ 30.9s
...
... The 2020 World Series was played at various locations, including:
* Dodger Stadium in Los Angeles, California (home of the LA Dodgers)
* Globe Life Park in Arlington, Texas (home of the Texas Rangers)
* Minute Maid Park in Houston, Texas (home of the Houston Astros)
* Fenway Park in Boston, Massachusetts (home of the Boston Red Sox)
* Oracle Park in San Francisco, California (home of the San Francisco Giants)

The series was played from October 20 to November 1, with the LA Dodgers winning the championship.
```

2.
3.

test.py > ...

```
 1 # Example: Using LCEL to reproduce a "Basic Prompting" scenario
 2 from langchain_core.prompts import PromptTemplate
 3 from langchain_core.output_parsers import StrOutputParser
 4 from langchain_core.runnables import RunnablePassthrough
 5 # from langchain_community.chat_models import ChatOllama
 6 try:
 7     from langchain_ollama import ChatOllama
 8 except ImportError:
 9     from langchain_community.chat_models import ChatOllama
10 # 2. Define the prompt
11 prompt = PromptTemplate.from_template(
12     "What is the capital of {topic}?"
13 )
14
15 # 3. Define the model
16 model = ChatOllama(model = "llama2") # Using Ollama
17
18 # 4. Chain the components together using LCEL
19 chain = (
20     # LCEL syntax: use the pipe operator | to connect each step
21     {"topic": RunnablePassthrough()} # Accept user input
22     | prompt                         # Transform it into a prompt message
23     | model                           # Call the model
24     | StrOutputParser()              # Parse the output as a string
25 )
26
27 # 5. Execute
28 result = chain.invoke("Germany")
29 print("User prompt: 'What is the capital of Germany?'")
30 print("Model answer:", result)
31
```

PROBLEMS 11 OUTPUT DEBUG CONSOLE TERMINAL PORTS JUPYTER GITLENS

```
PS C:\Users\kow12\OneDrive\Desktop\INFERENC\MLE_in_Gen_AI-Course\Class1\class1> cd ..
PS C:\Users\kow12\OneDrive\Desktop\INFERENC\MLE_in_Gen_AI-Course\Class1> cd ..
PS C:\Users\kow12\OneDrive\Desktop\INFERENC\MLE_in_Gen_AI-Course> cd ..
PS C:\Users\kow12\OneDrive\Desktop\INFERENC> python .\test.py
User prompt: 'What is the capital of Germany?'
Model answer:
The capital of Germany is Berlin.
PS C:\Users\kow12\OneDrive\Desktop\INFERENC> python .\test.py
User prompt: 'What is the capital of Germany?'
Model answer: The capital of Germany is Berlin.
```

3 Advanced:

```
app_gradio_ollama_proxy.py 8 X
app_gradio_ollama_proxy.py > ...
1 """
2 Gradio + LangChain + Ollama: Proxy AI-Agent with Optional Translation
3 -----
4 - Chat UI on top of local Ollama via LangChain's ChatOllama.
5 - Optional translation pipeline (auto-detect input -> English -> back to chosen language).
6 - Keeps chat history in the Gradio session.
7
8 Run:
9     python app_gradio_ollama_proxy.py
10
11 Requirements:
12     pip install -U gradio langchain langchain-core langchain-community langchain-ollama
13     # optional:
14     pip install deep-translator langdetect
15 """
16
17 from typing import List, Dict
18 import os
19 import gradio as gr
20
21 from langchain_core.prompts import ChatPromptTemplate
22 from langchain_core.output_parsers import StrOutputParser
23 from langchain_core.runnables import RunnablePassthrough
24
25 # Prefer the official package; fall back to community import if needed.
26 try:
27     from langchain_ollama import ChatOllama
28 except ImportError:
29     from langchain_community.chat_models import ChatOllama
30
31 # ---- Optional translation dependencies (fail gracefully if missing) ----
32 LANGDETECT_AVAILABLE = False
33 DEEP_TRANSLATOR_AVAILABLE = False
34 try:
35     from langdetect import detect
36     LANGDETECT_AVAILABLE = True
37 except Exception:
38     pass
39
40 try:
41     from deep_translator import GoogleTranslator
```

PROBLEMS 8 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

```
ValueError: numpy.dtype size changed, may indicate binary incompatibility. Expected 96 from C header, got 88 from PyObject
Keyboard interruption in main thread... closing server.
PS C:\Users\kow12\OneDrive\Desktop\INFERENC> python .\app_gradio_ollama_proxy.py
* Running on local URL: http://127.0.0.1:7860
* To create a public link, set `share=True` in `launch()`.
```

127.0.0.1:7860

Ollama Proxy AI-Agent (LangChain + Gradio)

- Choose an Ollama model and talk to it from your browser.
- Optional translation pipeline (auto-detect → English → your language).

Conversation

Hello, what should I invest in?

Excellent question! En fonction de votre tolérance au risque et de vos objectifs de placement, voici quelques FNB qui pourraient vous convenir :

1. Total US Stock Market ETF (VTI) : investit dans une large gamme d'actions américaines de différentes capitalisations boursières, offrant ainsi une exposition à l'ensemble du marché boursier américain.
2. ETF Total International Stock Market (VIE) : offre une exposition aux actions internationales en dehors des États-Unis, diversifiant votre portefeuille et réduisant potentiellement le risque.
3. ETF à dividendes élevés (VYM) : investit dans des actions versant des dividendes élevés, qui peuvent fournir un flux de revenus constant et une volatilité potentiellement plus faible.
4. ETF marchés émergents (EEM) : offre une exposition aux marchés émergents à croissance rapide, tels que la Chine, l'Inde et le Brésil, qui peuvent offrir un potentiel de rendements plus élevés à long terme.
5. ETF immobilier (VNQ) : offre une exposition au secteur immobilier à travers un portefeuille diversifié de REIT (Real Estate Investment Trusts), offrant une couverture potentielle contre l'inflation et la volatilité du marché.

N'oubliez pas qu'il est important de consulter un conseiller financier ou un professionnel avant de prendre toute décision d'investissement. Ils peuvent vous aider à déterminer les meilleures FNB adaptées à votre situation et à vos objectifs individuels.

Textbox

Type your message here...

Send Clear

Model & Server

Ollama Model: llama2

Ollama Base URL: http://127.0.0.1:1434

Temperature: 0.2

System Prompt

System Prompt: You are a long-term investor that takes medium risks and invests in ETFs. Be concise.

Translation (Optional)

Enable translation pipeline (auto-detect input → English → output language):

Output language: fr

Notes

- Make sure your Ollama server is running, and the selected model is pulled.
- For translation features, install: `pip install deep-translator langdetect`
- If translation packages are missing, the app still works but will not translate.

127.0.0.1:7860

Ollama Proxy AI-Agent (LangChain + Gradio)

- Choose an Ollama model and talk to it from your browser.
- Optional translation pipeline (auto-detect → English → your language).

Conversation

Bonjour, comment puis-je appliquer la théorie des jeux dans le domaine du jeu League of Legends?

Ah, an interesting question! Game theory can indeed be applied to League of Legends games in several ways. Here are a few examples:

1. Player Strategies: Analyze the strategies employed by players during matches, such as which champions they choose, when they engage in combat, and how they manage their resources. You could use game theory tools like Nash Equilibrium to understand how these strategies emerge and how they can be optimized.
2. Team Dynamics: Study how teams work together during games, including communication patterns, decision-making processes, and coordination. Game theory can help you understand how teams reach a mutually beneficial outcome, known as a Pareto optimality, by analyzing the interactions between team members.
3. Match Outcomes: Use game theory to predict the outcomes of League of Legends matches based on factors such as the strengths and weaknesses of each team, their strategies, and the dynamics of the game environment. This could involve modeling the game as a two-player game and analyzing the strategic interactions between players.
4. Player Behavior: Investigate how player behavior, such as aggression or cooperation, affects the outcome of games. Game theory can help you understand how players make decisions based on their expected outcomes and how these decisions impact the overall game state.
5. Esports Betting: Analyze the esports betting market and use game theory to predict the likelihood of certain teams or players winning.

Textbox

Type your message here...

Send Clear

Model & Server

Ollama Model: llama2

Ollama Base URL: http://127.0.0.1:1434

Temperature: 0.2

System Prompt

System Prompt: You are a university teacher at Harvard that teaches Game Theory. Be concise.

Translation (Optional)

Enable translation pipeline (auto-detect input → English → output language):

Output language: en