Product Spec: Finder Endpoint

Objective:

The Finder Endpoint is designed to empower the Metaphor product by overcoming its current limitation—it can fetch links but struggles to extract meaningful information from them. The ambition is to elevate Metaphor's capabilities, allowing it to both understand and relay the crucial information that users desire.

Functionality:

The 'Finder' taps into essential details about a topic and leverages the combined strength of OpenAI and ChatGPT to procure this information. This enhancement promises users a richer, more intuitive, and more informative experience.

Workflow:

Here are the key aspects of the workflow:\

(1) Fetch the prompt query.
(2) Use the Metaphor Finder API to get some relevant articles about the prompt.
(3) Use the Metaphor Contents API to extract key content about these articles.

(4) Use the OpenAI API to fetch key information about the prompt. In particular, we want to know about the number of results we should return, the general actions we should take (for instance, to summarize or explain these articles), and the key information-based columns we should return corresponding to this prompt..

(5) Finally, we populate each row and column of our information table corresponding to the query. (with num_results rows, and num_columns columns) using the OpenAI API. This functionality is heavily parallelized, and we return this table as a json.

(6) We post this information onto flask.

Model used:

We use the GPT 3.5 Turbo 16K model. This is an ideal model for our use case, as it is fast, allows for high token sizes, and is reasonably accurate and cheap.

Function Calls.

Currently these results are hosted using the ngrok app - results can be fetched, for example, using a call as follows. We enable two different functionalities - with just a query, or with both a query and columns. If columns are included, they should be underscore separated.

Example 1: Without Columns.

!curl -X POST "https://062e-73-162-128-8.ngrok-free.app/?q=Explain_5_articles_about_fencing"

Example 2: With Columns.

curl -X POST
"https://062e-73-162-128-8.ngrok-free.app/?q=Explain_5_articles_about_fencing&c=information_upsides_downsides"

Potential Future Directions:

1. Joining with the Research API:
There's a chance to connect our work with the research API. Ben is adding research features to the API, and blending our information with his work could work out really well.

2. Speeding Up or Showing Results Live:

At the moment, it takes our API about 5-7 seconds to respond to a call. So, making this faster or showing results as they come in could really help make things smoother and more enjoyable for users.

3. Better Way to Rank Results:
Right now, we just use Metaphor's way of scoring, which compares the user's question to our prompts, but it doesn't always get it right with the content we're showing. It might be good to add another step to check if our actual contents are a good match too, maybe using the OpenAI API.

Examples:

More examples are provided in the attached notebook, but here are some examples.

q=Tell_me_about_the_hot_trends_in_the_startup_ecosystem:

```
{
  "responses": {
    "key_columns": [
      "Trend Name",
      "Description",
      "Market Potential",
      "Key Players"
    ],
    "response": [
      {
        "Description": "In 2023, we can expect to see trends in social commerce, labor
marketplaces, mainstream AI adoption, and the unlocking of \"third places\" as gathering spots
outside of home and work. These trends will reshape the way we discover and purchase",
        "Key Players": "Key Players: \n1. Social platforms: With the rise of social commerce and
discovery commerce, social platforms will play a crucial role in product discovery and facilitating
the purchase process. They will need to create a seamless experience from inspiration to
purchase for users.",
        "Market Potential": "The market potential for 2023 will be driven by trends such as social
commerce, specialized labor marketplaces, mainstream AI adoption, and the unlocking of \"third
places\" for community gatherings outside of home or work.",
        "Trend Name": "Trend Name: \n1. Social Commerce and Video Commerce\n2. Specialized
Labor Marketplaces\n3. Mainstream AI Adoption\n4. Unlocking the \"Third Place\"",
        "url": "https://a16z.com/2022/12/15/big-ideas-in-tech-2023/"
      },
      {
        "Description": "In 2023, we can expect to see breakthroughs in buying, with social
platforms becoming natural places for product discovery and video becoming a key tool for
```

selling and educating consumers; labor marketplaces becoming specialized to help employees connect with hiring managers and build",

"Key Players": "Key Players:\n1. Connie Chan, General Partner, Consumer Team \n2. Olivia Moore, Partner, Consumer Team \n3. Bryan Kim, Partner, Consumer Team",

"Market Potential": "The market potential in 2023 includes breakthroughs in buying with the rise of social commerce and video commerce, specialized labor marketplaces to address labor shortages, mainstream adoption of AI technologies, and the unlocking of \"third places\" for community gatherings in the",

"Trend Name": "Social Commerce and Video Commerce",

"url": "https://www.businessinsider.com/the-most-promising-startups-of-2022-according-to-vcs-2022-9"

},
{

"Description": "In 2023, there will be a shift towards social commerce and video commerce, with social platforms becoming natural places for product discovery and new companies emerging to help everyday creators sell products and services. Labor marketplaces will also become more specialized, helping employees",

"Key Players": "Key Players:\n- Connie Chan, general partner, consumer team \n- Olivia Moore, partner, consumer team \n- Bryan Kim, partner, consumer team \n- Ray Oldenburg\n- Albert Wang\n- Olivier Pomel",

"Market Potential": "In 2023, the market potential lies in breakthroughs in buying where social commerce and video commerce will become prevalent, labor marketplaces will specialize to address labor shortages, mainstream AI adoption will focus on user behaviors and psychology, and the concept of the",

"Trend Name": "Breakthroughs in Social Commerce",

"url": "https://www.cnbc.com/2023/09/22/new-york-is-a-tech-startup-hotbed-after-almost-a-decade-of-ipos.html"

},
{

"Description": "In 2023, the following trends are expected: breakthroughs in buying with the rise of social commerce and video commerce, labor marketplaces becoming specialized to help with hiring and retaining talent, mainstream adoption of AI by focusing on user behaviors and psychology,",

"Key Players": "Key Players in Retail AI Startups:\n\n1. Afresh: Afresh is a San Francisco-based retail AI startup that helps stores optimize their fresh food supply chains, reducing waste and maximizing availability.\n\n2. AiFi: AiFi, based in Santa",

"Market Potential": "In 2023, there is a market potential for breakthroughs in buying, specialized labor marketplaces, mainstream AI adoption, and unlocking the \"third place.\" These trends include social platforms becoming natural places for product discovery, new labor marketplaces helping employees",

"Trend Name": "Retail AI Startups for Holiday 2022",

      "url":
"https://venturebeat.com/ai/7-ai-startups-aim-to-give-retailers-a-happy-holiday-season/"
    },
    {
      "Description": "In 2023, social platforms will become natural places for product discovery,
video will be a key tool for selling and educating consumers, labor marketplaces will help
employees build identity and reputation, and AI-focused founders will create products that can
be readily embraced",
      "Key Players": "Key Players: \n\n1. Connie Chan: General Partner, Consumer Team\n2.
Olivia Moore: Partner, Consumer Team\n3. Bryan Kim: Partner, Consumer Team",
      "Market Potential": "In 2023, social platforms will become the go-to place for product
discovery, making social commerce, discovery commerce, and video commerce the inevitable
trends in buying. This will create a new ecosystem where anyone can become a seller and new
companies can help",
      "Trend Name": "The Trend Name is \"Breakthroughs in Buying\"",
      "url": "https://a16z.com/big-ideas-in-tech-for-2023-an-a16z-omnibus/"
    }
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 }
}

q=Teach_me_some_info_about_tennis

{
  "responses": {
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    "response": [
      {
        "Tennis Info": "Tennis is a sport played with a felt-covered rubber ball, a tennis racket, and
a court. The goal is to hit the ball over the net into the other player's court, and points are
earned when the opponent is unable to return the",
        "url": "https://kids.kiddle.co/Tennis"
      },
      {
        "Tennis Info": "Tennis is a racket sport played individually or in teams, using a racket to hit
a rubber ball over a net into the opponent's court. The objective is to prevent the opponent from
returning the ball. It is a popular sport played at all levels",
        "url": "https://en.wikipedia.org/wiki/Tennis"
      },
      {

          "Tennis Info": "The sport of tennis is played with a racket and ball, with the objective being to hit the ball over a net and into the opponent's court in a way that they cannot return it. There are different types of strokes, such as forehand,",
          "url": "https://www.conservapedia.com/Tennis"
        },
        {
          "Tennis Info": "Tennis is a popular sport played with a felt-covered rubber ball, a tennis racket, and a court. It can be played by people of all ages and has various formats, including singles, doubles, and mixed doubles. The sport has a rich",
          "url": "https://www.tennis.com.au/learn/what-is-tennis"
        },
        {
          "Tennis Info": "Tennis is a popular sport played with a felt-covered rubber ball, a tennis racket, and a court. It can be played as singles or doubles on various surfaces such as grass, clay, or hard court. The objective is to hit the ball",
          "url": "https://www.topendsports.com/sport/tennis/index.htm"
        }
      ]
    }

q=Explain_5_articles_about_fencing&c=information_upsides_downsides

{
  "responses": {
    "key_columns": [
      "information",
      "upsides",
      "downsides"
    ],
    "response": [
      {
        "downsides": "Downsides of fencing:\n1. Fencing can be a dangerous sport, with the risk of injuries from swordplay.\n2. Fencing requires specialized equipment, which can be expensive.",
        "information": "When deciding to try fencing, it is important to first determine your purpose for wanting to fence, such as for fitness, competition, or historical interest. Fencing has different styles and approaches, so it is beneficial to research the different types and their histories",
        "upsides": "1. Fencing is a great way to get fit and improve your physical and mental skills. It is also a fun and enjoyable sport for both casual and competitive fencers. \n\n2. Fencing has strong traditions and different schools with unique styles and",
        "url": "https://www.wikihow.com/Learn-to-Fence"
      },
      {

"downsides": "1. The rules of fencing have become complex and may require significant time and effort to fully understand and navigate.\n2. Fencing equipment and training can be expensive, which may serve as a barrier to entry for some.\n3. Fencing is an",

"information": "Fencing is a sport that offers physical and cognitive benefits, such as strategy and quick reflexes, good sportsmanship, self-discipline, and the ability to make quick decisions. Fencing can also enhance mathematical performance and help individuals with ADD and ADHD",

"upsides": "- Fencing is a great way to learn both mental and physical skill and discipline.\n- Fencing provides physical and cognitive benefits, such as strategy development and quick reflexes.\n- Fencing helps children learn good sportsmanship, self-discipline, and",

"url": "https://dukecityfencing.net/why-fencing-is-the-best-sport-for-your-kids"

},

{

"downsides": "Some downsides of fencing include the potential for injuries, especially if safety guidelines are not properly enforced, and the fact that it can be expensive to participate in, with costs for equipment and club fees.",

"information": "Fencing is an ancient art that combines mental and physical skill and discipline, making it a great way to stay fit, compete, or explore historical appeal. There are different types of fencing with distinct styles and approaches, such as Italian, Spanish, and",

"upsides": "Upsides of Fencing:\n\n1. Fencing provides physical and cognitive benefits, improving strategy, reflexes, sportsmanship, self-discipline, and decision-making abilities.\n2. Fencing helps children stay active and get fit while also enhancing mathematical performance",

"url": "https://www.swordsmen101.com/WhyFencing_forparents.html"

},

{

"downsides": "Downsides: \n1. Fencing clubs may not be easily accessible for everyone, making it difficult for some people to participate regularly.\n2. Fencing can be an expensive sport, with costs for equipment, lessons, and membership fees adding up",

"information": "If you're interested in learning how to fence, it's important to decide why you want to fence, research different styles and schools of fencing, and find a fencing club or school near you that aligns with your goals and safety standards. Fencing",

"upsides": "The article discusses the benefits of fencing, including physical and cognitive benefits such as improving concentration, reflexes, decision-making abilities, and self-discipline. It also mentions that fencing can enhance mathematical performance and is a great way for children to learn about competition",

"url": "https://fencing.net/learning-to-fence/"

},

{

"downsides": "1. Fencing can be a physically demanding and intense sport, which may not be suitable for everyone, especially those who are not fond of competitive activities.\n2. Finding a suitable fencing club or school may not be easy, as there may be limited",

"information": "Fencing is a traditional and exciting sport that combines old traditions with modern technology. There are different schools of fencing with distinct styles and approaches,

and it can be pursued for fitness, competition, or historical appeal. To get started, research and find a",
     "upsides": "1. Fencing is a great way to learn both mental and physical skill and discipline, providing both fitness and competition opportunities.\n2. Fencing has strong traditions and distinct schools with different styles, providing a rich and diverse experience for participants.\n3.",
     "url": "https://www.articlesfactory.com/tag/fencing-ideas.html"
   }
  ]
 }
}