

Market Analysis Agent

Overview

The **Market Analysis Agent** is an AI tool that helps users find the best products online. It takes a user's search request and turns it into clear product suggestions by collecting and analysing data from online shops.

Goal

To build a smart system that can:

1. Understand what the user wants.
2. Find product data from online stores.
3. Rank products by quality, popularity, and price.
4. Show the best 3 products with short, clear reasons.

How It Works

The system has **four AI agents** that work one after another:

1. **Query Clarifier** – Understands what the user means.
2. **Category Mapper** – Decides where and how to look for products.
3. **Crawl Orchestrator** – Collects real product data from websites.
4. **Results Refiner** – Filters, ranks, and shows the best results.

Process: User → Query Clarifier → Category Mapper → Crawl Orchestrator → Results Refiner → Final Results

What You Get

- A list of the top 3 products.
- Each product includes:
 - Key details and price.
 - A short reason for why it's recommended.

Main Outputs

- A working multi-agent system.
- Data formats (JSON) for agent communication.
- Product ranking logic.
- Setup and usage guide.