**Automated Blog Article Creation Using Agentic Method with LLMs**

**Objective**

To create an automated system for generating news/story/narrative blog articles on given topics using an agentic method with large-language-models (LLMs). The system will involve three types of agents: researcher, writer, and editor.

**Project Scope**

1. **Researcher Agent:** Gathers the latest news and trends in a specified industry, producing a comprehensive report.
2. **Writer Agent:** Crafts a compelling narrative based on the researcher's report.
3. **Editor Agent:** Refines and finalizes the content, ensuring accuracy and coherence.

**Frameworks and Libraries**

* **CrewAI Framework:** For creating and managing the agents and their tasks.
* **LangChain Framework:** For supporting various LLMs and ensuring flexibility in model selection during development phase and comparisons later.

**APIs and Tools**

* **SerperDevTool():** Utilizes the Serper API for Google search to extract relevant news.
* **googleGemini-1.5-flash:** The primary LLM used for content generation (cost-effective and currently free).

**Workflow**

**Step 1: Researcher Agent**

**Task:** To gather the latest news and trends on a provided topic.

**Tools:**

* **SerperDevTool():**
  + Uses Serper API to conduct Google searches.
  + Extracts top 10-20 relevant articles.

**Process:**

1. **Query Formation:** Generate queries related to the given topic.
2. **API Call:** Use SerperDevTool() to fetch search results.
3. **Output:** Compile the extracted information into a 2 paragraph comprehensive report.

**Step 2: Writer Agent**

**Purpose:** To create a smooth, accurate, and engaging narrative.

**Tools:**

* **googleGemini-1.5-flash:**
  + Generates content based on the research report.

**Process:**

1. **Input Report:** Take the researcher's report as input.
2. **Content Generation:** Use googleGemini-1.5-flash to generate a blog article.

**Step 3: Editor Agent**

**Purpose:** To refine and finalize the blog content.

**Tools:**

* **CrewAI Framework:** For managing the editing process.

**Process:**

1. **Review Content:** Analyze the writer's output.
2. **Edit and Update:** Make necessary changes for clarity, coherence, and accuracy.
3. **Finalization:** Ensure the final piece is polished and ready for publication.

**Publishing**

* LinkedIn and a personal blogging website via Sprout Social’s automated scheduling API (free 30-day trial).
* Publish one blog each week

**Conclusion**

This project leverages an agentic method using LLMs and the CrewAI framework to automate the creation of news/narrative blog articles. By employing researcher, writer, and editor agents, the system ensures the generation of accurate, engaging, and polished content based on the latest industry trends.