Agentic Al Assignment

Thank you for your interest in Tech9. We ask that all of our AI engineering candidates participate in a short take home assignment. Below are the requirements. Please take time to complete each requirement and return it to me within 2 days. Please reach out if you have any questions.

Assignment: Competitive Blog Post Generator (Multi-Agent System)

Objective

Develop a competitive blog post generator using any agentic Al framework of your choice. Examples include LangGraph, CrewAl, LangChain, LlamaIndex, SmolAgents, or similar. The system should be capable of planning, researching, and writing a high-quality blog post.

Requirements

1. Framework Flexibility

Choose **any modern agentic Al framework** (e.g., CrewAl, LangGraph, LangChain, LlamaIndex, SmolAgents).

2. Competitive Blog Generation Focus

The output should demonstrate a **competitive advantage**, such as:

SEO-optimized content

A unique tone, voice, or structure

Strong domain-specific insights

3. Multi-Agent Architecture

Define **clear responsibilities** for each agent (e.g., *Outline Generator*, *Research Analyst*, *Writer*, *Editor*).

Show **orchestration**—agents must collaborate either in **sequence** or via a **hierarchical flow**.

4. Tool Integration

Integrate at least one external tool or data source in the workflow. Examples:

Web search API

Keyword analyzer

Persistent memory store

Any domain-specific API

5. Observability & Configurability

Include monitoring mechanisms to observe agent workflows.

Allow **non-technical users** to adjust prompts, parameters, or behavior (e.g., via a config file or UI).

6. Documentation

Provide a **README** covering:

Architectural choices and rationale

The chosen framework and why it was selected

How agents collaborate

What makes your solution competitive

You can submit the solution on the google drive or Github location