AI Agent Assignment Submission: AI Content Creator

👤 SECTION 1: BASIC DETAILS

Name: *Kumar Gautam*
🌟 **AI Agent Title / Use Case:** *AI Agent to Help Content Creators Generate Unique AI-Based Content Ideas & Drafts*

🧠 SECTION 2: PROBLEM FRAMING

✅ 2.1. What problem does your AI Agent solve?

Many aspiring or solo content creators struggle with content ideation, consistency, and finding fresh ideas aligned to trends and niches. This agent helps them by suggesting creative, trending, and personalised content ideas.

✅ 2.2. Why is this agent useful?

It helps creators avoid burnout and saves time by automating ideation. It also improves the quality of output by suggesting structured formats like hook-body-CTA for reels, blogs, or carousels.

✅ 2.3. Who is the target user?

Freelance content creators, social media influencers, marketing interns, and solopreneurs who want help creating regular high-quality content.

❌ 2.4. What not to include?

- Full graphic/image generation (too complex for scope)
- Platform scheduling or analytics
- Long-form article writing (agent focuses on ideation and short drafts)

🔧 SECTION 3: 4-LAYER PROMPT DESIGN

🔷 3.1 INPUT UNDERSTANDING

📄 **Prompt:**
"Summarise the user's intent. Extract content type (reel/post/blog), theme/niche (fitness, travel, etc.), and tone (funny, informative, etc.) if mentioned. If not clear, ask clarifying questions."

🧠 **Responsibility:**
Understanding what the user actually wants the agent to generate, and standardising the input.

📅 **Example:**
Input: "Need something fun for Instagram about AI"
Output: Content Type = *Instagram Reel*, Theme = *AI*, Tone = *Fun*

🔷 3.2 STATE TRACKER

📄 **Prompt:**
"Maintain session memory of user's niche and previous content types. If the user asks again, default to last known settings unless changed. Example: 'Continue from last prompt'."

🧠 **Memory Simulation:**
Yes, by storing last-used variables (e.g., niche="AI", platform="Instagram").

🌐 **Why this matters:**
Simulates memory by carrying over user preferences across multiple interactions.

🔷 **3.3 TASK PLANNER**

📄 **Prompt:**
"Based on extracted input, follow this plan:

1. Identify 3 relevant trends in that niche.

2. Use them to generate 2 content ideas with title + short draft.

3. Format output based on the content type."

🖥️ **Planning Strategy:**
Chaining steps: understanding > trend-matching > idea creation > formatting.

🔷 **3.4 OUTPUT GENERATOR**

📄 **Prompt:**
"Use markdown. Output:

- **Title** (bold)

- *Hook* (1-liner)

- Short draft (40-60 words)

- CTA (Call to action) Add emoji and make it scroll-stopping if on social."

🎨 **Output Styling:**
Adapts tone and layout for Instagram, LinkedIn, YouTube, or blogs. Uses emojis, structure, and tone formatting.

🔍 SECTION 4: CHATGPT EXPLORATION LOG

✨ Attempt #	📄 Prompt Variant	❓ What Happened	✏️ What You Changed	🌟 Why
1	"Give me ideas for Instagram post"	Too generic	Added tone and niche	For relevance
2	"Suggest AI-themed carousel ideas in funny tone"	Good ideas, no format	Added formatting instruction	For clarity and usability
3	"Make it platform-aware and remember my last niche"	Memory failed	Added manual variable passing	To simulate continuity

🧪 SECTION 5: OUTPUT TESTS

✅ Test 1: Normal Input

Input: "I need an AI-related reel idea in fun tone"
Output:

- **Title:** "*When ChatGPT Becomes Your Therapist*"

- **Hook:** "POV: You talk to an AI and it gets TOO real"

- **Draft:** Show a person ranting, then AI gives deep advice. Overlay captions.

- **CTA:** "Tag a friend who needs AI therapy 😂"

❓ Test 2: Vague Input

Input: "Give me something creative"
Output: *Agent asks follow-up: "What platform are you creating for? What's your niche and tone preference?"*

❌ Test 3: Invalid Input

Input: "aaj kuch mast karo"
Output: *"Can you tell me what type of content you want? For which platform?"*

🔄 SECTION 6: REFLECTION

❗ 6.1 What was the hardest part?

Simulating memory and chaining tasks was tricky. Needed multiple revisions and careful structuring.

✨ 6.2 What part did you enjoy the most?

Watching creative ideas being generated and adapting the tone to fun/sassy reels was really enjoyable.

🌟 6.3 If given more time...

I would add an API call for live trend extraction and store user preferences in a lightweight local database.

🤓 6.4 What did you learn?

Prompt design is like programming logic — modular thinking, variable passing, and clear instructions make a big difference.

❓ 6.5 Did you get stuck?

Yes. I struggled with making the agent remember past inputs, but overcame this by using a variable-carryover structure in the prompts.

🧠 SECTION 7: HACK VALUE

- 🔷 Simulated memory using prompt-driven variables.

- 🎨 Added platform-aware formatting logic.

- ✨ Included tone variation and visual output instructions.