# Build Your Own AI Assistant

Part 4: Creative Applications - Capstone Project

```python
class PersonalAIAssistant:
    def __init__(self, name, specialty, personality):
        self.name = name
        self.specialty = specialty
        self.personality = personality

    def get_system_message(self):
        return f"""You are {self.name}, a helpful AI assistant.
        Specialties: {self.specialty}
        Personality: {self.personality}
        Always respond in character with expertise and helpfulness."""

    def chat(self, user_message):
        response = litellm.completion(
            model="gpt-3.5-turbo",
            messages=[
                {"role": "system", "content": self.get_system_message()},
                {"role": "user", "content": user_message}
            ],
            temperature=0.6
        )
        return response.choices[0].message.content
```

🎓 **Study Buddy**

Academic help, homework assistance, concept explanation

💻 **Code Mentor**

Programming guidance, debugging help, best practices

🎨 **Creative Partner**

Writing assistance, brainstorming, idea generation

📅 **Personal Organizer**

Task management, scheduling, productivity tips

🚀 **Enhancement Ideas**
Add memory, conversation history, or specialized knowledge bases.

🏆 **Student Challenge: Create & Demo!**