

AI-Powered Motivational Quote Generator

Project Documentation - GenAI Unit 1 Assignment 2

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Section: I

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Problem Statement - Motivational Quote Generator

Category 6: Creative Writing & Content (Expansion on Generation)

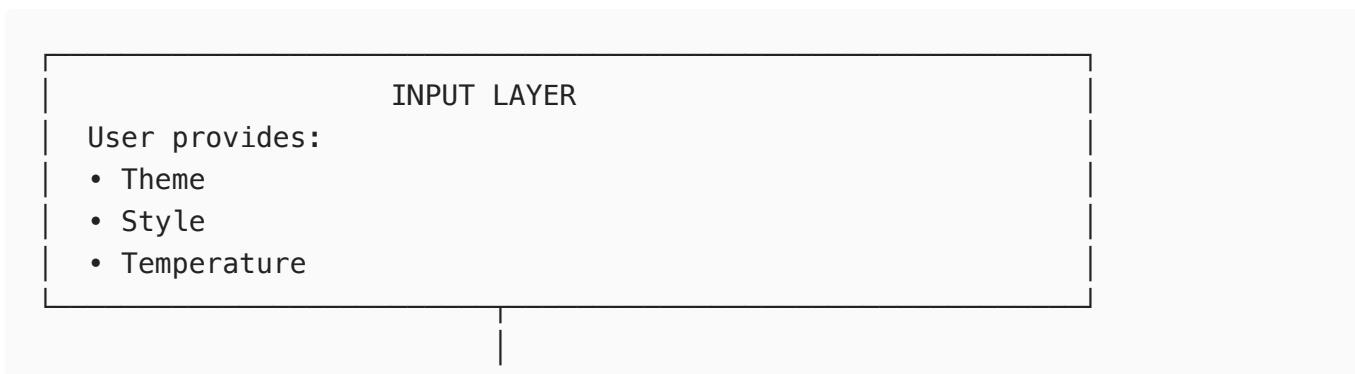
- **Goal:** Generate unique motivational quotes based on keywords like "Success", "Grind", "Peace".
- **Tech:** gpt2 with high temperature for creativity.

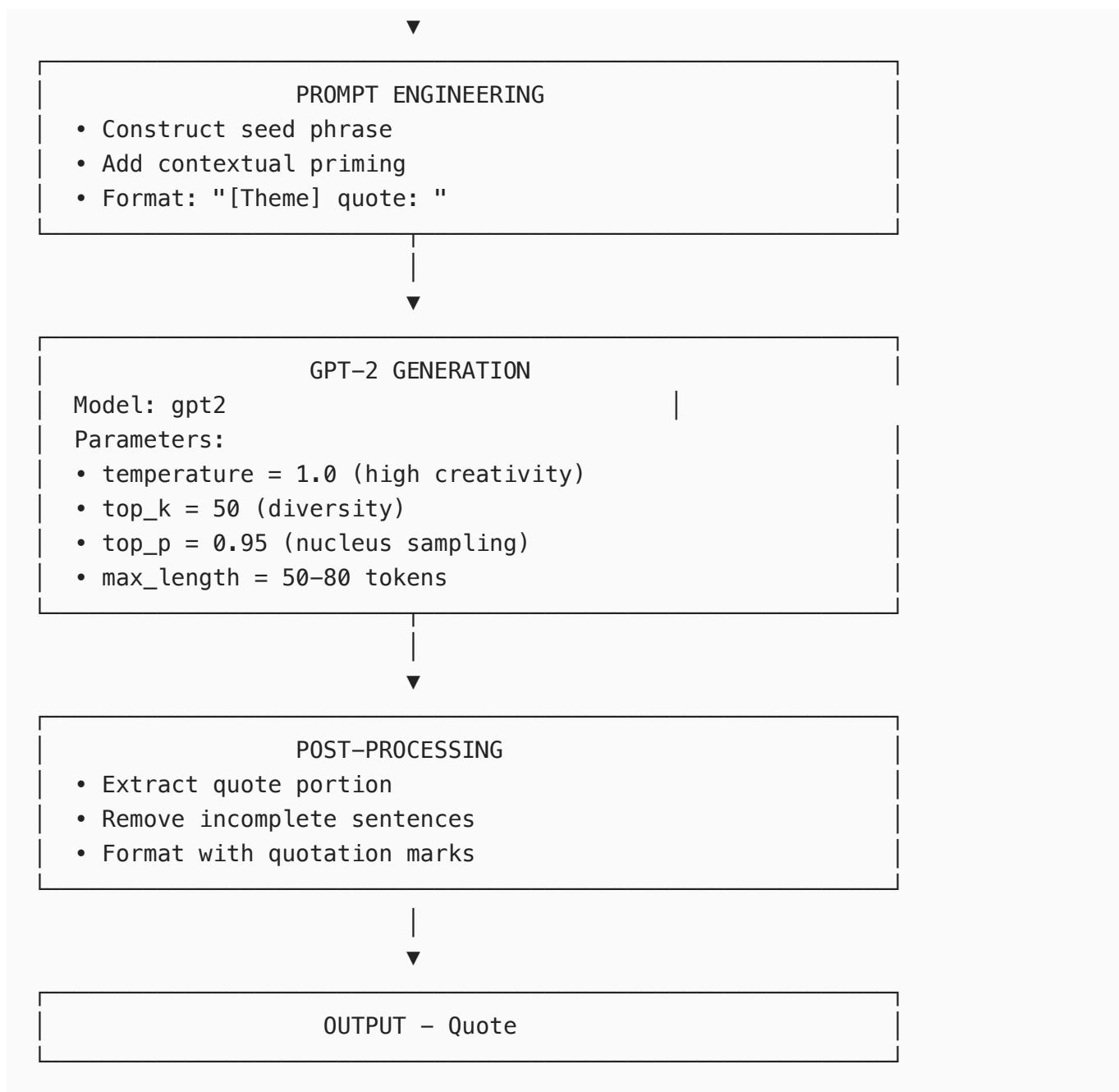
Proposed Solution

- We propose an AI-driven system that dynamically generates motivational quotes based on:
 - User-defined themes (e.g., success, resilience, peace, innovation)
 - Controllable creativity levels via temperature tuning
 - Multiple stylistic modes (inspirational, reflective, assertive, poetic)
 - Context-aware generation to ensure thematic and semantic consistency
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Technical Architecture

System Architecture





Why GPT-2?

Strategic Model Selection:

Criterion	GPT-2 Advantage
Training Data	Diverse internet text including motivational content
Language Quality	Fluent, natural-sounding generation
Speed	Fast inference (~2–3 sec/quote on CPU)
Controllability	Temperature tuning enables creativity control
Size	124M params - efficient without GPU

Criterion	GPT-2 Advantage
Availability	Open-source, well-documented

Temperature Tuning Guide

Understanding Temperature

Temperature controls randomness in token selection:

Low Temp (0.7)	Medium (1.0)	High Temp (1.3)
↓	↓	↓
Focused	Balanced	Creative
Predictable	Versatile	Diverse
Safe	Recommended	Risky

Conclusion

1. **Temperature tuning is critical** for balancing creativity and coherence
2. **Prompt engineering dramatically impacts** output quality
3. **Post-processing is essential** for professional results
4. **GPT-2 excels at creative tasks** despite being "older"