

# AI-Powered Motivational Quote Generator

## Project Documentation - GenAI Unit 1 Assignment 2

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### Problem Statement - Motivational Quote Generator

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

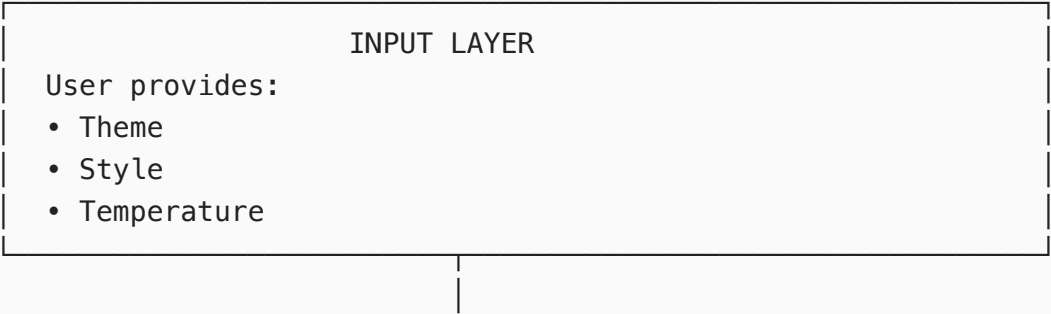
- **Goal:** Generate unique motivational quotes based on keywords like "Success", "Grind", "Peace".
- **Tech:** gpt2 with high temperature for creativity.

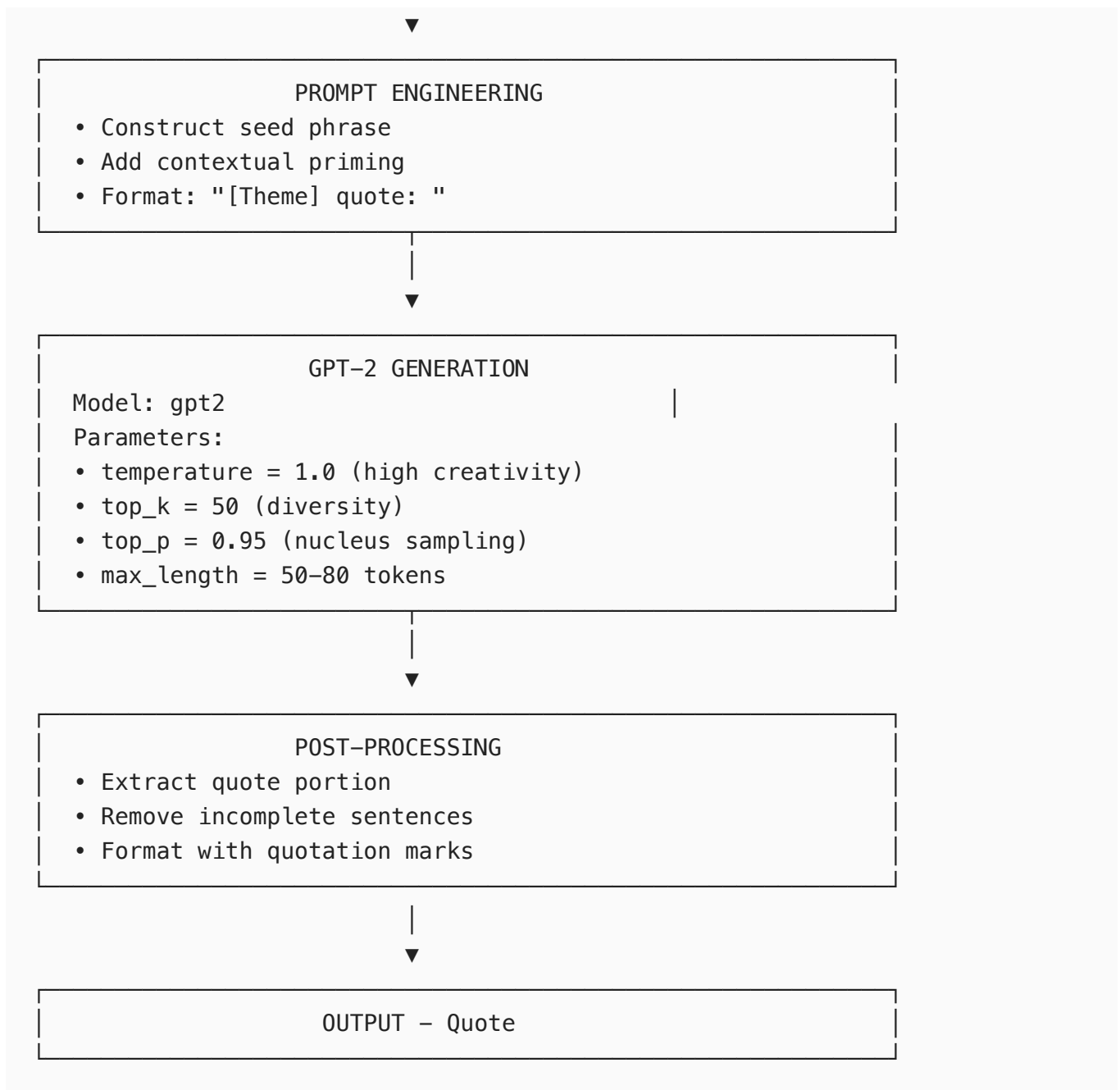
### Proposed Solution

- 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

### 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

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# 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

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## 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"