Prompt Engineering Task 1

AI-Powered YouTube Script & Thumbnail Generator

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Project Overview

This project demonstrates how prompt engineering can automate an end-to-end YouTube content creation workflow using AI tools, covering ideation, scripting, thumbnail design, and video generation.

Selected Topic

5 AI Tools That Can Replace a Full-Time Job in 2025
Genre: Tech / Careers / AI

Objective

To design structured prompt chains that guide AI tools to produce a complete YouTube content package including script, thumbnail, and final video.

Prompt Engineering Workflow

- Prompt 1 – Ideation & Structure: Define video flow, tone, and audience.

- Prompt 2 – Script Generation: Create an 800–1500 word YouTube script.

- Prompt 3 – Video Generation: Convert script into a professional video using InVideo AI.

- Prompt 4 – Thumbnail Generation: Design a MrBeast-style high CTR thumbnail.

Video & Thumbnail Details

Video Tool: InVideo AI
Aspect Ratio: 16:9
Thumbnail Style: MrBeast-inspired, high contrast, emotional

Key Learnings

- Prompt chaining for structured outputs

- Long-form AI content generation

- AI-assisted video creation workflows

- Thumbnail psychology & CTR optimization

Conclusion

This task highlights how prompt engineering transforms AI tools into production systems capable of generating professional content efficiently.