

Module 3: Developing Prompt Intelligence: Intro to Prompt Engineering

Lesson 6: Getting High- (and then higher-) Quality Results

Achieving high-quality results with prompt engineering is iterative and requires a combination of clear problem definition, experimentation, context provision, and sometimes advanced techniques like fine-tuning.

Below is our step-by-step approach to achieving high-quality results with AI.

1. **Define the Goal**

The process involves moving from point A to point B with AI as an accelerator. Determining point B (the desired outcome) is crucial.

2. **Define the Problem**

Clear problem definition is crucial. If unclear, take a break, reflect, and use tools like ChatGPT to help structure your thoughts.

3. **Use the Scientific Method**

Develop a hypothesis, conduct experiments, analyze the results, and incorporate findings for continuous improvement.

4. **Utilize Prompt Iteration**

Assess results against a pre-defined threshold, applying constraints and leveraging AI to solve the problem quickly. Iterate based on outcomes. If unsuccessful after several tries, break the problem into smaller parts.

5. **Quality Assessment**

If results are $\geq 50\%$ of the desired quality and save significant time, consider refining the prompt further. If results are $< 50\%$ of the desired quality, break the problem down further.

Best Practices

- Use "zero-shot" prompts (no examples) to test the water.
- Provide gold-standard examples to boost accuracy.
- Incorporate more context either in prompts or through conversations with AI.
- Consider fine-tuning by adjusting the model based on a set of examples, enhancing its predictions.

Similar to training a human, by providing instructions, showing exemplary work, and giving context, over time, mastery is achieved.