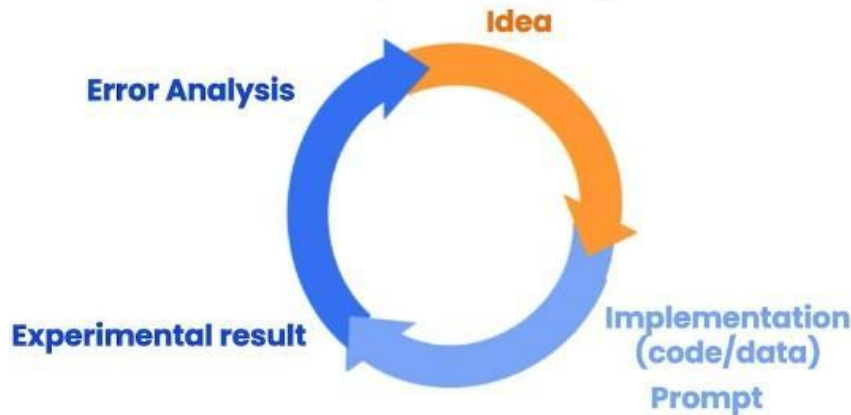


Iterative Prompt Development Process

LunaCare: Women's Reproductive Health Assistant

1. Framework for Prompt Engineering

Iterative Prompt Development



Deeplearning.ai. <https://www.deeplearning.ai/>

Repeat the following steps to conduct an iterative prompt development in this LLM Track

1. Describe your idea
2. Design a clear and specific prompt
3. Conduct a conversation with the assistant
4. Analyze why the result does not give the desired output

2. Development Process

The iterative prompt development process can involve multiple turns; here, I list only three to give you an idea of how to navigate the process.

2.1 First Turn

2.1.1 Idea

Description of Idea: I want to design an AI chatbot that acts as a personal assistant specializing in PCOS and women's reproductive health management.

2.1.2 Prompt

Research: I began by searching for “What is PCOS?”

Prompt Construction:

Context: Symptoms: Irregular periods, acne, weight gain, excessive hair growth, or thinning hair.

2.1.3 Experimental Result

Result from LunaCare:

PCOS is a hormonal disorder that affects women of reproductive age. It is characterized by irregular menstrual cycles, excess androgen levels, and polycystic ovaries on ultrasound. The management of PCOS typically involves lifestyle modifications such as weight loss, dietary changes, exercise, and stress reduction. Medications such as oral contraceptives, insulin sensitizers, and anti-androgens may also be prescribed to manage symptoms. In severe cases, fertility treatments or surgery may be recommended. It is important for women with PCOS to work closely with their healthcare provider to develop an individualized treatment plan that addresses their specific needs and goals.

2.1.4 Prompt

Research: I began by searching for “What is PCOS?”

2.1.5 Experimental Result

Result from LunaCare:

PCOS is a complex condition and there is no one-size-fits-all approach to managing it. The best management plan for you will depend on your individual symptoms, how much they are affecting your life, whether you want to get pregnant in the future, and any other medical conditions you may have.

2.1.6 Prompt

Research: I began by searching for “What are the causes of PCOS in young girls?”

2.1.7 Experimental Result

Result from LunaCare:

PCOS is a common disorder in women of reproductive age. The causes of PCOS are not fully understood, but it is believed to be influenced by both genetic and environmental factors. Some studies suggest that exposure to certain chemicals or endocrine disruptors during fetal development may increase the risk of developing PCOS later in life. Other research indicates that maternal obesity and high levels of insulin during pregnancy can also contribute to the development of PCOS in daughters. Additionally, there is some evidence that suggests a link between low birth weight and PCOS, with women born with low birth weight having an increased risk of developing the condition later in life. It is important for young girls to maintain a healthy diet and lifestyle during puberty, as this may help reduce their risk of developing PCOS later in life.
