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Bharat Unnati AI Fellowship (FAB)

Prompt Engineering – Student Worksheets

Worksheet 1: Understanding Prompts (Basics)

1. What is a Prompt? (Write in your own words)

A prompt is the instruction or question that we give to an AI to tell it what we want it to do. It acts as a guide for the AI. When the prompt is clear, specific, and well-structured, the AI can understand the requirement better and provide an accurate and useful response. On the other hand, if the prompt is vague or incomplete, the AI may give an unclear or incorrect answer.

2. Real-Life Connection

Situation: Asking for directions

In daily life, clear instructions are very important, especially when asking for directions. If a person gives unclear or confusing directions, we may take the wrong road, get lost, or waste a lot of time trying to reach our destination. For example, if someone says “go straight and turn somewhere,” it is not helpful because it lacks exact details.

This situation is similar to giving prompts to an AI. Just like humans need clear directions to guide them correctly, AI also needs clear and detailed prompts to give accurate and helpful responses. This shows why giving proper instructions is very important.

Worksheet 2: Bad Prompt vs Good Prompt

Bad Prompt:

Explain climate change.

Improved Prompt:

Explain climate change in simple words for school students, with one real-life example.

Why is your improved prompt better?

The improved prompt clearly mentions who the explanation is for (school students) and how the answer should be explained (in simple words with an example). This helps the AI understand the level of detail and type of explanation required, resulting in a more clear, relevant, and easy-to-understand response.

Worksheet 3: The 5 Building Blocks of a Good Prompt (Cloud Computing)

1. Context:

The topic is cloud computing, and the explanation is meant for beginners who are learning it for the first time.

2. Task:

Explain the concept of cloud computing in a simple and understandable way.

3. Persona (Identity):

You are a cloud computing teacher explaining the topic to students.

4. Format:

Explain the concept using short points and simple examples.

5. Tone:

Keep the explanation easy, clear, and beginner-friendly.

6. Exception (Limitations):

Do not use technical terms or advanced concepts. Keep the explanation short and easy to understand.

Worksheet 4: Role-Based Prompting Practice (Resume Preparation)

Prompt 1 (Role: Teacher):

You are a teacher. Explain step by step how students can create a good resume..

Prompt 2 (Role: Recruiter):

You are a recruiter. Review my resume and suggest changes to improve my chances of getting selected.

Difference in Answers:

A teacher will focus on explaining the basic structure and important sections of a resume, helping students understand how to create one correctly.

A recruiter, on the other hand, will focus on what companies look for, such as skills, experience, keywords, and formatting that increase the chances of selection.

Worksheet 5: Prompt Improvement Exercise

Original Prompt:

Explain machine learning.

Step 1 – Add Role:

You are a machine learning trainer

Step 2 – Add Context:

I am a beginner student who has just started learning machine learning and has no prior technical background.

Step 3 – Add Format or Constraints:

Explain the topic using simple language, short points, and one real-life example. Avoid technical terms.

Final Improved Prompt:

You are a machine learning trainer. Explain machine learning to a beginner student using simple words, short bullet points, and one real-life example. Avoid using technical terms and keep the explanation easy to understand.

Why the Improved Prompt is Better:

The improved prompt clearly defines who is speaking (trainer), who the learner is (beginner student), and how the explanation should be given (simple points)

Worksheet 6: Practice Prompts

1. Learning a New Topic

Explain the basics of data science in easy language for beginners.

2. Resume Help

Help me improve my resume for a fresher-level job by suggesting important sections and skills to include.

3. Interview Practice

Ask me basic interview questions and guide me with simple and clear answers.

4. Explaining a Topic Simply

Explain artificial intelligence in a very simple way with an example that is easy to understand.

5. Solving a Daily Problem

Suggest simple and practical ways to manage time better as a student.

Worksheet 7: Identify the Mistake

Prompt:

Write about programming.

What is missing?

The prompt is too vague. It does not mention

Role – Who should explain it

Context – For whom it is being explained

Format – How the answer should be written

Limits – How detailed or simple the answer should be

Because of this, the AI may give a very general or unclear response.

How Can It Be Fixed?

Improved Prompt:

You are a programming teacher. Explain the basics of programming for beginners using simple points and easy language.

This improved prompt clearly tells:

Who is explaining (teacher)

Who the learner is (beginners)

How the explanation should be given (simple points)

What level of detail is expected

This helps the AI give a more accurate and useful answer.

Worksheet 8: Reflection

1. What did you find easy about Prompt Engineering?

Understanding how to ask better and clearer questions was easy. Once I learned that small changes in wording can improve the answer, writing prompts became simpler and more effective.

2. What was confusing?

Choosing the correct level of detail and deciding the limits of a prompt was slightly confusing. Sometimes it is hard to decide how much information is enough without making the prompt too long.

3. How can better prompts help you in studies or career?

Better prompts help in getting clear and accurate answers quickly. They improve learning, save time, and help in effective communication. In a career, good prompts can help in problem-solving, using AI tools efficiently, and making better decisions.

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