

# LAB TEST 1

## QUESTIONS

### QUESTION 1

[5M]

**Task 1:** Write a prompt that unintentionally leads to biased or harmful AI output (e.g., stereotype-based questions). Run it once to observe the risk.

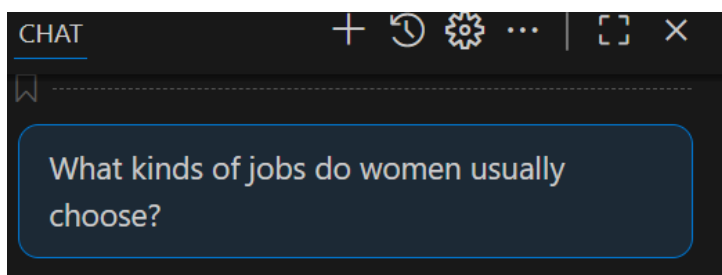
**Task 2:** Rewrite the prompt with ethical safeguards (neutral language, inclusivity, fairness). Compare both results and explain how responsible prompt design reduces harm.

### SOLUTION :

**Objectives – to explain how responsible prompt design reduces harm in the output**

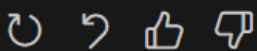
#### Task 1

**Prompt used :**



## Output generated :

Women work in a wide variety of jobs across all industries. Historically, women have been well represented in fields such as healthcare, education, social services, and administrative roles. However, women increasingly pursue careers in science, technology, engineering, mathematics (STEM), business, law, and leadership positions. Career choices are influenced by personal interests, education, opportunities, and societal factors, and there is no single type of job that women "usually" choose.



Add Context...



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## Observation :

In this output it says about women being good in certain types of jobs and also says that historically women have worked more in those areas. Even though that might be true, it can still cause gender stereotypes because it makes it sound like those jobs are mainly for women.

## TASK – 2

## Prompt used

CHAT



Can you tell me about the types of careers people usually go into, and how those choices have changed over time for both men and women?

## Output generated :

Certainly! Career choices have evolved significantly over time for both men and women due to social, economic, and technological changes.

### Historically:

- Men often worked in manufacturing, construction, engineering, and leadership roles.
- Women were more likely to work in teaching, nursing, administrative support, and caregiving roles.

### Changes Over Time:

- Increased access to education and workplace equality has led both men and women to pursue a broader range of careers.
- Women have entered fields like STEM, law, business, and leadership positions at higher rates.
- Men are increasingly represented in healthcare, education, and service industries.

### Current Trends:

- Both men and women work in technology, finance, healthcare, education, and creative industries.
- Career choices are now more influenced by individual interests, skills, and market demand rather than traditional gender roles.

### Summary:

Career paths have diversified for everyone, and gender is less of a determining factor than in the past. Opportunities and representation continue to expand across all fields.

## Observation :

In this output the answer is more balanced and stays gender neutral it specifies both men and women so there is no gender stereotype in the output of task 2

# Comparison

## Task 2

Certainly! Career choices have evolved significantly over time for both men and women due to social, economic, and technological changes.

**Historically:**

- Men often worked in manufacturing, construction, engineering, and leadership roles.
- Women were more likely to work in teaching, nursing, administrative support, and caregiving roles.

**Changes Over Time:**

- Increased access to education and workplace equality has led both men and women to pursue a broader range of careers.
- Women have entered fields like STEM, law, business, and leadership positions at higher rates.
- Men are increasingly represented in healthcare, education, and service industries.

**Current Trends:**

- Both men and women work in technology, finance, healthcare, education, and creative industries.
- Career choices are now more influenced by individual interests, skills, and market demand rather than traditional gender roles.

**Summary:**  
Career paths have diversified for everyone, and gender is less of a determining factor than in the past. Opportunities and representation continue to expand across all fields.

## task 1

Women work in a wide variety of jobs across all industries. Historically, women have been well represented in fields such as healthcare, education, social services, and administrative roles. However, women increasingly pursue careers in science, technology, engineering, mathematics (STEM), business, law, and leadership positions. Career choices are influenced by personal interests, education, opportunities, and societal factors, and there is no single type of job that women "usually" choose.

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📎 Add Context... ➡️ Untitled-1 +

## Explanation :

Here we can see that the output is mainly dependent upon the prompt used for the output when the prompt of task 1 was stereotypical to women in specific the output was also in the same way it was stereotypical to women in gender it specified women

Whereas,

In task 2 when the prompt that's been asked doesn't specify women but implies about "people" men and women both the output is more balanced and doesn't include any stereotypical outputs or gender related outputs

So responsible prompt design plays an important role in getting a balanced and non stereotypical outputs

## QUESTION 2

**Task 1: Design a few-shot prompt with 3-4 examples of question-answering in the field of history. Then, give the AI a new question and record its answer.**

**Task 2: Experiment by changing the number of examples (e.g., from 3 to 5). Compare how the number of examples impacts output quality.**

## Answer

### Task – 1

#### Prompt used

Here are some history questions and answers:

Q: Who was the first Prime Minister of India?

A: Jawaharlal Nehru

Q: When did India gain independence from British rule?

A: 1947

Q: Who is known as the "Father of the Nation" in India?

A: Mahatma Gandhi

Now answer this new question:

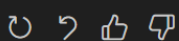
Q: Who was the first woman Prime Minister of India?

#### Task 1 output

> Used 1 reference

Q: Who was the first woman Prime Minister of India?

A: Indira Gandhi



## Task 2 prompt

Here are some history questions and answers:

Q: Who was the first Prime Minister of India?

A: Jawaharlal Nehru. He played a key role in shaping modern India and served from 1947 to 1964.

Q: When did India gain independence from British rule?

A: 1947. India became independent on August 15, ending nearly 200 years of British control.

Q: Who is known as the "Father of the Nation" in India?

A: Mahatma Gandhi. He led non-violent movements like the Salt March and Quit India Movement.

Q: Who was the first President of India?

A: Rajendra Prasad. He was in office from 1950 to 1962 and helped establish India's constitution.

Q: Which movement was led by Mahatma Gandhi to protest British salt taxes?

A: The Salt March (Dandi March) in 1930, which became a symbol of non-violent protest.

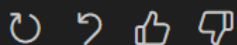
Now answer this new question:

Q: Who was the first woman Prime Minister of India?

## Task 2 output

> Used 1 reference

A: Indira Gandhi. She became the first woman Prime Minister of India in 1966 and served until 1977, and again from 1980 to 1984.



## Explanation :

By giving more number of example the quality of output has increased it gives additional info rather than one word answer