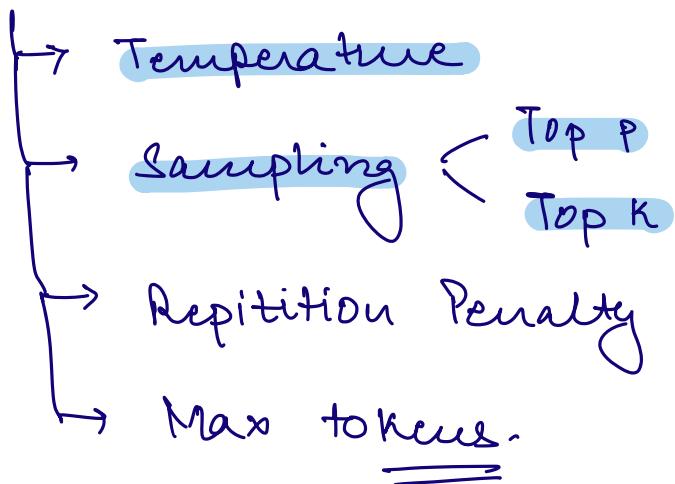
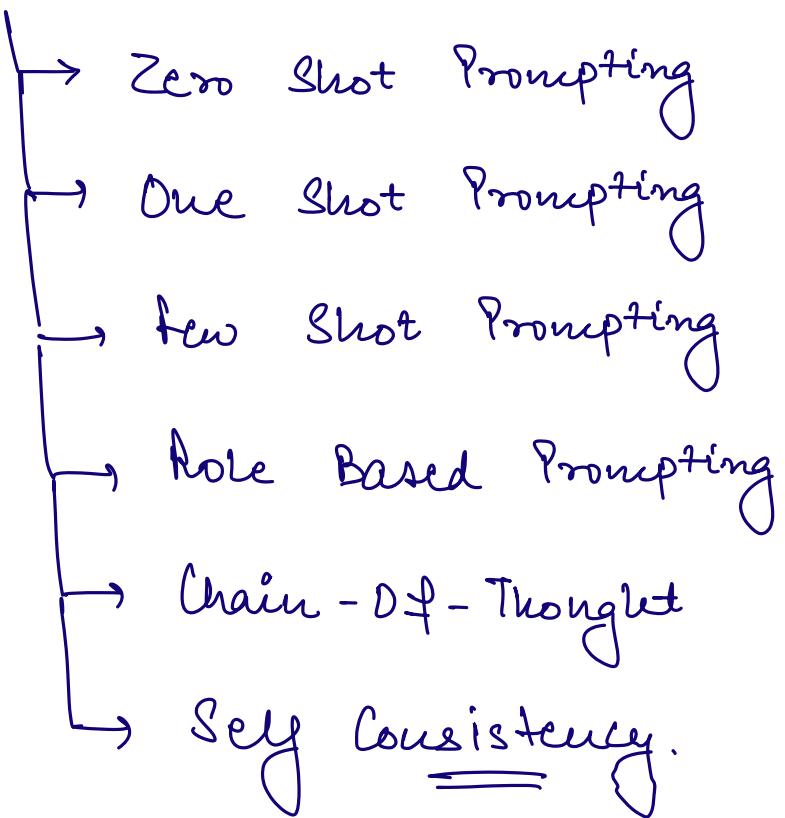


Parameters



Advanced Prompting techniques



Zero Shot Prompting

↳ Only provide the task to LLM,
without any example.

Ex : Translate this sentence to Hindi

- Quick responses
- Instructions are clear

One Shot Prompting

↳ Provide the task to LLM with
exactly one example.

⇒ Convert the sentence in a polite form.

Ex : Sentence : Open the door.

Polite : Please, Open the door

Now, Sentence : Call me later.

↳ Please, Call me later.

When we need to give minimal guidance to our model.

- Slightly ambiguous
- format / tone / -

few - Short Prompting

↳ Task (instruction) + few examples
(3-5)

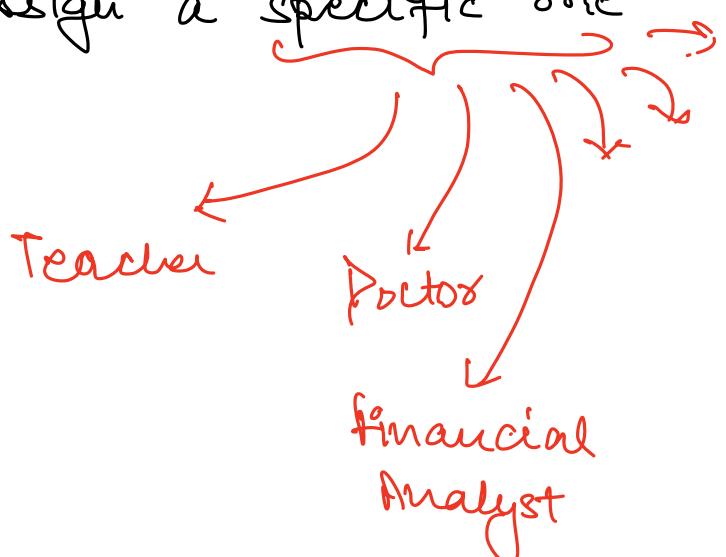
→ Classification Problems.

→ Complex / difficult to understand tasks.

Role Prompting

↳ Assign a role / persona to model to control tone, depth & perspective of the response.

→ Inside the prompt, assign a specific role to the model



Zero-Shot \Rightarrow 0 examples

One-Shot \Rightarrow 1 example

Few-Shots \Rightarrow 3-5 examples

Role Prompting \Rightarrow Assign a role
to the model.

Chain-of-Thought (CoT)

\hookrightarrow Prompt to ask the model to show the
step-by-step reasoning before giving the
final answer.

Instead of

Give me the answer.

With CoT:

Think step by step & then answer

\Rightarrow In CoT, we are asking model to break down
a problem into intermediate steps to reach
to the final response.

→ Solving Maths | DSA | Puzzle problems →

→ Multi-Step reasoning process →

Self-Consistency Prompting

Instead of trusting one answer, self-consistency asks the model:

- 1) Generate multiple answers.
- 2) Compare the answers.
- 3) Select the most frequent | consistent result.

⇒ Self-Consistent is a technique where multiple outputs are generated for the same instruction & out of these multiple answers, we select the most frequent one.

→ Expensive < ^{lost}
latency

Temperature $\xrightarrow{\downarrow}$ 0.0 - 2.0

Controls Creativity of the model.

less Temp. \Rightarrow More predictable | consistent

high Temp \Rightarrow More creative | random

Sampling

$\xrightarrow{\quad}$ Top-K
 $\xrightarrow{\quad}$ Top P

Apple is going to launch new

0.4	0.3	0.15	0.1	0.05
Iphone	Macbook	Ipad	Airpods	iMac

Top-K $\Rightarrow K=3$.

Top-P \Rightarrow
 $\xrightarrow{\quad}$ 0.8

0.4	0.3	0.15	0.1	0.05
Iphone	Macbook	Ipad	Airpods	Imac
0.4	0.4	0.85	0.95	1

