

**Prompt
Engineering
A to Z :
Complete Guide &
Frameworks**

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Prompt Engineering — Complete Guide & Frameworks

Prompt engineering is the process of designing clear, structured instructions for AI models so they generate accurate, useful, and consistent outputs.

It is like giving the AI:

- A role
- A goal
- Context
- Rules
- Output format
- Examples

The better the prompt, the better the result.

Simple Definition

Prompt Engineering = The art of communicating with AI effectively.

Used in:

- Content writing
 - Coding
 - Marketing
 - Cybersecurity
 - HR
 - Finance
 - Research
 - Automation
 - AI agents
 - Chatbots
 - SaaS products
-

Core Structure of a Powerful Prompt

The best prompts usually contain:

ROLE + TASK + CONTEXT + RULES + OUTPUT FORMAT + EXAMPLES

Example:

You are an expert digital marketer.

Create a LinkedIn post for a cybersecurity company targeting SMEs in India.

Tone should be professional and simple.

Output:

- Hook
- Story
- CTA
- Hashtags

MASTER PROMPT ENGINEERING FRAMEWORKS

1. RTF Framework

(Role – Task – Format)

Best for beginners.

Structure

Role:

Task:

Format:

Example

Role: You are a finance analyst.

Task: Explain GST filing for small businesses in India.

Format: Step-by-step bullet points.

2. RISEN Framework

(Role – Instructions – Steps – End Goal – Narrowing)

Best for detailed professional prompts.

Structure

Role

Instructions

Steps

End Goal

Constraints/Narrowing

Example

You are an HR trainer.

Instructions:

Create AI training content for corporate employees.

Steps:

1. Explain AI basics
2. Show practical tools
3. Give department-wise use cases

End Goal:

Employees should use AI daily.

Narrowing:

Keep language simple and practical.

3. CRISPE Framework

(Capacity – Role – Insight – Statement – Personality – Experiment)

Best for creative + business prompts.

Structure

Capacity
Role
Insight
Statement
Personality
Experiment

Example

Capacity: Expert in branding

Role: Startup consultant

Insight: Indian startups struggle with positioning

Statement: Create unique branding ideas

Personality: Bold and innovative

Experiment: Give 5 unconventional ideas

4. COAST Framework

(Context – Objective – Actions – Scenario – Task)

Best for business workflows.

Structure

Context
Objective
Actions
Scenario
Task

Example

Context:
Cybersecurity company targeting SMEs

Objective:
Generate leads

Actions:
Create LinkedIn content calendar

Scenario:
Limited marketing budget

Task:
Provide 30 content ideas

5. TAG Framework

(Task – Action – Goal)

Simple and fast.

Example

Task:
Write webinar email

Action:
Use storytelling and urgency

Goal:
Increase registrations

6. BAB Framework

(Before – After – Bridge)

Best for marketing copywriting.

Example

Before:

Businesses waste time manually creating reports.

After:

AI automates reporting in minutes.

Bridge:

Use ChatGPT prompts and workflows.

7. APE Framework

(Action – Purpose – Expectation)

Best for operational prompts.

Example

Action:

Create proposal

Purpose:

Pitch AI training services

Expectation:

Professional PDF-ready format

8. CARE Framework

(Context – Action – Result – Example)

Best for training and teaching.

Example

Context:

Corporate AI workshop

Action:

Create practical exercises

Result:

Employees learn faster

Example:

Use HR automation prompts

9. TRACE Framework

(Task – Role – Action – Context – Expectation)

Best all-round framework.

Example

Task:

Build CRM workflow

Role:

AI automation expert

Action:

Design automation

Context:

Training inquiry management

Expectation:

Scalable system

10. SMART Prompting

(Specific – Measurable – Achievable – Relevant – Time-Bound)

Best for productivity.

Example

Create 10 LinkedIn posts for cybersecurity awareness targeting SMEs within 24 hours.

ADVANCED PROMPT ENGINEERING TECHNIQUES

11. Chain of Thought (CoT)

Makes AI think step-by-step.

Example

Solve this problem step-by-step before giving the answer.

Useful for:

- Coding
 - Math
 - Analysis
 - Strategy
-

12. Few-Shot Prompting

Give examples before asking.

Example

Example 1:

Input: Weak password

Output: Use strong password with MFA

Example 2:

Input: Phishing mail

Output: Verify sender domain

Now answer:

Input: Public WiFi risk

13. Zero-Shot Prompting

No examples.

Write a cybersecurity awareness email.

14. Tree of Thought (ToT)

AI explores multiple possibilities before deciding.

Example

Generate 3 business growth strategies.
Compare pros and cons.
Choose the best one.

15. ReAct Framework

(Reason + Act)

Used in AI agents.

Structure

Thought
Action
Observation
Final Answer

Used in:

- AI automation
 - Autonomous agents
 - Research bots
-

16. Meta Prompting

Prompt that creates prompts.

Example

Create a high-converting marketing prompt for a cybersecurity company.

17. Self-Consistency Prompting

Ask AI to generate multiple answers and pick the best.

Example

Generate 5 solutions and choose the most practical one.

18. Persona Prompting

Assign a personality or expertise.

Example

Act as a Fortune 500 CEO advisor.

19. Constraint Prompting

Set limitations.

Example

Write under 100 words using simple English.

20. Structured Output Prompting

Force specific output.

Example

Output in JSON format.

UNIVERSAL MASTER PROMPT TEMPLATE

You are a [ROLE].

Your task is to [TASK].

Context:

[BACKGROUND INFORMATION]

Instructions:

- 1.
- 2.
- 3.

Rules:

-
-
-

Output Format:

[FORMAT]

Tone:

[STYLE]

Goal:

[FINAL OBJECTIVE]

C-R-E-A-T-E framework:

- **Context:** What is the background?
- **Role:** Who is the AI acting as? (e.g., "Act as an HR Director")
- **Explicit Instructions:** What exactly needs to be done?
- **Audience:** Who is reading this?
- **Tone:** Professional, urgent, empathetic?
- **Examples:** Give the AI a sample of the desired output format.

BEST PROMPT ENGINEERING FOR DIFFERENT DEPARTMENTS

Marketing

Act as a digital marketing strategist...

HR

Act as an HR automation expert...

Cybersecurity

Act as a cybersecurity consultant...

Finance

Act as a CFO advisor...

Coding

Act as a senior full-stack developer...

PROMPT ENGINEERING LEVELS

Level	Description
Beginner	Simple commands
Intermediate	Structured prompts
Advanced	Multi-step workflows
Expert	AI agents & automation
Architect	AI systems & orchestration

COMMON PROMPT ENGINEERING MISTAKES

- ✗ Vague prompts
 - ✗ No context
 - ✗ Too many tasks together
 - ✗ No output format
 - ✗ No constraints
 - ✗ Overloading AI
-

BEST PRACTICES

- ✓ Give clear role
 - ✓ Add context
 - ✓ Define goal
 - ✓ Specify format
 - ✓ Use examples
 - ✓ Break into steps
 - ✓ Refine iteratively
 - ✓ Use constraints
 - ✓ Ask AI to think step-by-step
-

PROMPT ENGINEERING FOR BUSINESS AUTOMATION

For your businesses like NMR Infotech, Aegisys, and Growth Capsule, prompt engineering can help build:

- AI proposal generators
- AI training systems
- Automated email replies
- Lead qualification bots
- CRM automation
- Cybersecurity report generation
- Social media content systems
- AI-powered customer support
- AI SOP creation
- AI research assistants

HIGH-CONVERTING PROMPT FORMULA

Act as [EXPERT ROLE].

Help me achieve [GOAL].

Context:
[DETAILS]

Requirements:

-
-
-

Avoid:

-
-

Output:
[FORMAT]

Essential Prompting Frameworks & Techniques

1. CIDI Framework

Useful for structured business prompts.

CIDI = Context → Instruction → Details → Intent

Example:

Context: Small manufacturing businesses in India

Instruction: Create an AI adoption strategy

Details: Budget under ₹2 lakh

Intent: Improve operational efficiency

Why it matters: Separates what to do from why to do it.

2. ICIO Framework

Useful for enterprise workflows.

ICIO = Input → Context → Instructions → Output

Example:

Input: Customer complaint data

Context: Telecom company support team

Instructions: Categorize issues and identify patterns

Output: CSV table

Why missing: Many real-world AI systems receive structured input data.

3. Goal–Constraint–Criteria Framework (GCC)

Structure:

Goal

Constraints

Success criteria

Example:

Goal: Create a sales script

Constraints:

Under 150 words

Friendly tone

For SMEs

Success Criteria:

Clear value proposition

CTA included

Why important: Production prompts need measurable outcomes.

4. Retrieval-Augmented Prompting (RAG Prompting)

Very important in modern AI systems.

Structure:

User query

Retrieved documents

Instructions

Response rules

Example:

Use only the supplied company documents to answer.

If information is unavailable, say: "Not found in provided data."

Why essential: Used heavily in:

Enterprise chatbots

Internal knowledge systems

AI assistants

Customer support systems

5. Delimiter-Based Prompting

Use explicit separators.

Example:

Context: "" Customer reviews here ""

Task: "" Summarize major complaints ""

Why important:

Reduces ambiguity

Helps with long prompts

Improves parsing reliability

6. Reflection / Self-Critique Prompting

Structure:

1. Generate answer

2. Review answer

3. Improve answer

Example:

Create a proposal.

Then review it for:

clarity

grammar

persuasiveness

Then rewrite.

Why important: Improves output quality substantially.

7. Generate → Evaluate → Refine (GER)

Structure:

1. Generate solutions

2. Evaluate each

3. Improve the strongest

Example:

Generate 5 marketing campaigns.

Rate each from 1–10.

Improve the highest-scoring one.

Why important: Common in advanced AI workflows.

8. Socratic Prompting

AI asks questions before answering.

Example:

Before creating the strategy, ask me up to 5 clarifying questions.

Why important:

Prevents assumptions and hallucinations.

Useful for:

Consulting

Requirements gathering

Software projects

9. Role + Audience + Outcome (RAO)

Structure:

Role: Audience: Desired outcome:

Example:

Role: Cybersecurity consultant

Audience: Small business owners

Outcome: Explain ransomware prevention

Why important: Audience targeting strongly changes output quality.

10. XML / Markdown Structured Prompting

Example:

```
<role>  
Senior marketing strategist  
</role>
```

```
<context>  
B2B cybersecurity startup  
</context>
```

```
<task>  
Create a campaign strategy  
</task>
```

Why important:

Modern LLMs often perform better with structured hierarchy.

11. Multi-Agent Prompting

Structure:

```
Agent 1: Researcher  
Agent 2: Analyst  
Agent 3: Reviewer
```

Example:

Research market trends → analyze findings → critique recommendations

Why important:

Widely used in:

AI agents

automation systems

orchestration frameworks

12. Negative Prompting / Exclusion Rules

Example:

Avoid:

jargon

emojis

marketing buzzwords

unsupported claims

Why important: Tells the model what not to generate.

13. Confidence Prompting

Example:

Answer and provide confidence level:

High

Medium

Low

Mention assumptions separately.

Why important:

Useful for:

research

finance

compliance

analysis

14. Verification Prompting

Example:

After answering:

Check for factual inconsistencies

Verify calculations

Identify assumptions

Why important: Reduces error propagation.

15. Tool-Use Prompting (modern agent systems)

Example:

If external information is required:

1. Search

2. Analyze

3. Summarize

4. Cite source

Why important:

Core capability for:

AI agents

autonomous systems

workflow automation

Section: Prompt Engineering Lifecycle

Your guide jumps from frameworks to examples but misses the process:

1. Define objective
2. Add context
3. Specify constraints
4. Choose framework
5. Add examples
6. Test output
7. Refine
8. Evaluate consistency
9. Deploy
10. Monitor and iterate

Section: Prompt Engineering Maturity Model

Level Focus

Beginner	Single prompts
Intermediate	Structured prompts
Advanced	Chains & workflows
Expert	Agent systems
Architect	Multi-agent orchestration
Enterprise	RAG + tools + monitoring
Research	Autonomous reasoning systems

FINAL SECRET OF PROMPT ENGINEERING

The best prompts are:

- Specific
- Context-rich
- Structured
- Goal-oriented
- Iterative

AI performs best when you communicate like a clear manager, strategist, or architect — not with random instructions.