# AI Prompt Templates & Practice - Social Eagle

## A. Basic Prompt Templates

- 1. General Inquiry: Explain Electron microscope in simple terms.
  Ans by chat GPT:
- An **electron microscope** is a special kind of microscope that lets us see **extremely small things**, much smaller than what a regular microscope can show.
- Instead of using light to see objects, it uses a beam of **electrons**. Since electrons are much smaller than light waves, they can reveal **tiny details**—like the shapes of viruses, bacteria, or even atoms.
- There are two main types:
  - **SEM (Scanning Electron Microscope)** – shows 3D images of a surface.
  - **TEM (Transmission Electron Microscope)** – shows detailed images of the inside of a sample.
- In short, an electron microscope helps scientists and engineers look at things at the **nanometer level**, which is a billionth of a meter!
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- 2. Summarization: Summarize the following text in 6 bullet points:
  There are many types of electron microscope starting with Tungsten/conventional SEM with a resolution of 3nm,FESEM with resolution of 1nm or lower,Gallium FIB with FESEM plus ION column,Xenon FIB with Xenon column for high throughput,and few attachments like in situ heating stage,In-situ tensile stage,cryo are the tools used in todays nano material research.There are optional detectors available like EDS,EBSD,CL,EBIC etc.

  Chatgpt Output:
- **2. Summarization: Summarize the following text in 6 bullet points**
  - **Tungsten/conventional SEM** offers a resolution of about **3 nanometers**.
  - **FESEM (Field Emission SEM)** provides higher resolution of **1 nanometer or better**.
  - **Gallium FIB** integrates FESEM with a **focused ion beam** for detailed nano-structuring.
  - **Xenon FIB** uses a **Xenon ion column** for **high-throughput processing**.
  - **In-situ tools** like **heating stage, tensile stage, and cryo systems** are used for advanced nano-material research.
  - **Optional detectors** such as **EDS, EBSD, CL, and EBIC** enhance material characterization capabilities.

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- 3. Paraphrasing: Rewrite this sentence in your own words: [love poetic ]
  Chatgpt op
  Here's a poetic paraphrase of the idea behind **"love poetic"**:
  - *Love is the unspoken verse written in the space between two heartbeats.*
  - *It is a soft melody that lingers in silence, yet speaks louder than words.*
  - *Love is the ink that turns ordinary moments into eternal poetry.*
  - *It's the echo of one soul recognizing itself in another.*

- 4. Definition Request: What is the meaning of "Mersalaayitten"
  Chatgpt Output:
- 🎶 **Meaning of "Mersalaayitten"**
- **"Mersalaayitten"** is **Tamil slang**, and here's what it means in simple words:
- 💥 "Mersalaayitten" roughly translates to:
  **"I'm stunned," "I'm blown away," or "I've totally fallen (for you)"** — usually in a **love-struck, excited, or amazed** way.
- It's a playful, punchy word with high emotion—often used by youth in Tamil Nadu to express strong feelings (especially in romantic or exciting moments).

- _____
- 🧠 **Breakdown:**
  - Derived from the Tamil word **"Mersal"** (மெர்சல்) meaning **shocked / electrified / stunned**.
  - The suffix **"aayitten"** means **"I have become"** or **"I turned into"**.
- So, **"Mersalaayitten" = I've become stunned/shocked (by love, beauty, or surprise)**.

- 5. Comparison: Compare [A] and [B] based on [Common criteria].
  Chat GPT output.
- **Comparison: A – Basic Prompt Templates vs. B – Persona-Based Prompt Templates**

| Criteria | A – Basic Prompt Templates | B – Persona-Based Prompt Templates |
|---|---|---|
| Definition | Simple, general-purpose templates used for common tasks | Prompts written with a specific character, role, or user profile in mind |
| Flexibility | Highly flexible, suitable for many use cases | More tailored to a specific scenario or user type |

| Criteria | A – Basic Prompt Templates | B – Persona-Based Prompt Templates |
|---|---|---|
| Tone/Style | Neutral, instructional, or formal | Adopts tone, attitude, or language of the chosen persona |
| Ease of Use | Easy for beginners, minimal learning curve | May need user context or a defined persona to work effectively |
| Example | "Summarize this article in 5 points" | "You are a school teacher — explain this article to your 8th grade class" |
| Best Use Case | Quick tasks, universal situations | Roleplay, simulations, industry-specific queries, emotional/empathetic response |

## B. Persona-Based Prompt Templates

- 6. Role + Explanation: You are a Diabetologist  Explain about diabetes to audience. Chatgpt output
- 🩺 **You are a Diabetologist – Explain about diabetes to audience (in simple terms):**

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- 👤 **Hello everyone,**
- I'm a **Diabetologist**, and today I'll explain what **diabetes** is — in a way that's easy to understand.

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- 🩸 **What is Diabetes?**
- Diabetes is a **health condition where your body has trouble managing sugar (glucose)** in the blood. Normally, your body uses a hormone called **insulin** (produced by the pancreas) to move sugar from your blood into your cells for energy.
- But in diabetes:
    - Either your body **doesn't make enough insulin**,
    - Or your body **doesn't use insulin properly**.
- As a result, sugar **builds up in your blood** — and that can harm your eyes, kidneys, heart, nerves, and more over time.

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- 🍬 **Types of Diabetes:**
    1. **Type 1 Diabetes**
       – Usually starts in childhood or teens

- – The body makes **no insulin**
- – Requires insulin injections

2. **Type 2 Diabetes**
    - – More common in adults, but increasing in youth
    - – The body **resists insulin** or doesn't make enough
    - – Managed with lifestyle changes, tablets, sometimes insulin

3. **Gestational Diabetes**
    - – Occurs during pregnancy
    - – Usually goes away after delivery, but needs close monitoring

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- 🗂️ **What Causes It?**
  - **Unhealthy food habits**
  - **Lack of exercise**
  - **Obesity**
  - **Family history**
  - **Stress & sleep issues**

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- ✅ **Can We Control It?**
- Yes! Diabetes can be **controlled** (and sometimes prevented) with:
  - 🥗 Healthy eating
  - 🧘 Regular exercise
  - 💊 Medications or insulin (if needed)
  - 🧪 Regular sugar testing
  - ❤️ Stress management

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- 🩺 **Final Words:**
- Diabetes is **not a death sentence**. With the right care, **you can live a long, healthy life**.
- Take small steps every day — your future self will thank you!

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- Would you like this explanation in Tamil or as a slide summary too?
  <mark>REDFINED ROLE as 5 th class teacher and concept remain same.</mark>
- You are a 5 th class teacher Explain about diabetes to students.
- **ChatGPT said:**
- 🧑‍🏫 **You are a 5th Class Teacher – Explain about Diabetes to Students (in simple words):**

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- 👩‍🏫 **Hello, kids!**
- Today, I'm going to tell you about something called **diabetes**. Don't worry — I'll explain it in a way that's easy to understand!

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- 🍬 **What is Diabetes?**

- Our body needs **energy**, just like how a car needs fuel.
  That energy comes from the **food** we eat — especially **sugar** or **glucose**.
- But here's the thing:
- 🧠 Our body has a helper called **insulin** — it's like a key made by an organ called the **pancreas**.
  Insulin helps the sugar from food go into our body's cells, where it's used for energy.
- In **diabetes**, this key (insulin) doesn't work properly or isn't there.
  So the sugar gets **stuck in the blood** and can't go into the cells.

- _____
- 🤷 **Why is That a Problem?**
- If too much sugar stays in the blood:
  - The person can feel **tired** or **thirsty**
  - They may need to **pee often**
  - Over time, it can hurt their eyes, feet, and other parts
- But don't worry — **doctors help people manage it** and they can stay healthy!

- _____
- 🧍 **How Can We Stay Safe?**
- Even if we don't have diabetes, we should:
  - 🍎 Eat healthy foods (not too much sugar or junk food)
  - 🚴 Play and exercise every day
  - 😴 Sleep well
  - 💧 Drink water, not too many sugary drinks

- _____
- 🧠 **Remember:**
- Diabetes is not a monster — it just means someone needs extra care.
  With good habits and help from doctors, people with diabetes can be **happy and strong**, just like anyone else!

- 7. Style Mimicry: Write like [famous person or character]: [topic].
- 8. Professional Writing: You are a [job title]. Write a [document type] about [topic].

## C. Few-Shot Prompt Templates

- 9. Classification Template: Classify each message spam or not spam based on examples.
  You won a lottery and pay Rs.10,000 to claim it-SPAM.
  YOU WON a lottery please visit our office with your tkt and bank account details- NOT SPAM.
  We are offering interest of 36% on your deposits-spam.
  We are offering 6% on deposits and senior citizen will get 0.5% additional-Not spam

  Chagpt Output

- **Classification Template: Classify each message as Spam or Not Spam based on examples**
- 📝 **Instruction:**
  Using the examples below, classify each new message as **Spam** or **Not Spam**.

- _____
- 🔍 **Examples:**
- **Message:** You won a lottery and pay Rs.10,000 to claim it
  **Label:** Spam
- **Message:** YOU WON a lottery please visit our office with your ticket and bank account details
  **Label:** Not Spam
- **Message:** We are offering interest of 36% on your deposits
  **Label:** Spam
- **Message:** We are offering 6% on deposits and senior citizen will get 0.5% additional
  **Label:** Not Spam

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- Now classify this: We are offering interest of 24% on your deposits
- **ChatGPT said:**
- **Message:** We are offering interest of 24% on your deposits
  **Label: Spam**

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- 📌 **Reason:** The interest rate (24%) is **unrealistically high**, which is a common sign of fraudulent or spam financial messages — similar to the "36%" example marked as Spam.
- **You said:**
- we are offering 5% interest on your deposits and special offer of addtional 1% valid only till this month end.

- 10. Translation Template: Translate the following sentences into Tamil.

  **Input to Chatgpt: 1.Translation Template: Translate the following sentence into Tamil**
  **2.Sentence:** ICE engine
  **Translation:** உள் எரிபொருள் இயந்திரம் *(Uḷ eriporuḷ iyandhiram)*

  _____
  ✅ **Explanation:**
  "ICE engine" stands for **Internal Combustion Engine**, which in Tamil is translated as:
- **உள் எரிபொருள் இயந்திரம்**
  - **உள் (Uḷ)** = Internal
  - **எரிபொருள் (Eriporuḷ)** = Fuel
  - **இயந்திரம் (Iyandhiram)** = Engine or Machine

- 11. Question Answering Template: Answer these questions based on given examples.
- Q: What is the capital of Tamilnadu state?
- A: Chennai
- 
- Example 2:
- Q: Who wrote "Thirukural"?
- A: Thiruvalluvar
- 
- Example 3:
- Q: What is the Maxium speed allowed in indian Express highway?
  A: 100 Km.

  Chat GPT after giving this input.
  **Q: What is the maximum speed of Bangalore Electronics City Elevated Tollway (flyover)?**
  **A: 60 km/h**
  **Q: What is the capital of USA?**
  **A: Washington, D.C.**

## D. Chain-of-Thought (CoT) Templates

- 12. Step-by-Step Reasoning: Let's think step by step [Bangalore Traffic].
- **Step-by-Step Reasoning: Let's think step by step**
- **Problem: Bangalore Traffic**
    1. **Bangalore is a rapidly growing metro city** with high population density and a booming IT industry.
    2. This has led to **increased vehicle ownership**, especially two-wheelers, cars, and cabs.
    3. **Infrastructure hasn't kept up** with growth — many roads are narrow, poorly maintained, or under construction.
    4. **Public transport is limited** or overcrowded during peak hours, pushing more people toward private vehicles.
    5. **Traffic signals are not well synchronized**, and junctions often lack proper lane discipline.
    6. **Encroachments, illegal parking, and unpredictable weather** (rainfall) worsen congestion.

7. Peak hour traffic sees **average speeds drop to 10–15 km/h** in core areas like Silk Board, KR Puram, and Hebbal.
8. Efforts like **metro expansion, signal-free corridors, and smart traffic management** are in progress but take time.

- **Answer:** Bangalore traffic is primarily caused by rapid urban growth, insufficient infrastructure, high private vehicle use, and poor traffic enforcement. Long-term solutions need both public transport upgrades and better urban planning

- 13. Math Problem Solving: Solve this math problem by showing your work.

  **Q: 12000 × 3/4 + 6 × 7 − 10**

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  ✅ **Step-by-Step Calculation:**
  1. **First, multiply 12000 by 3/4**
     12000×34=900012000 \times \frac{3}{4} = 900012000×43=9000
  2. **Next, multiply 6 by 7**
     6×7=426 \times 7 = 426×7=42
  3. **Now add the two results**
     9000+42=90429000 + 42 = 90429000+42=9042
  4. **Finally, subtract 10**
     9042−10=90329042 - 10 = 90329042−10=9032

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  ✅ **Answer: 9032**

- 14. Logical Puzzle: Solve the following logic puzzle. Show your reasoning.
- Luch order : We need choose a restaurant where all 3 us (me,Ashwini & Prahalad) can order a food,I am strict vegetarian and don't like to take VEG food from Non veg restaurants,Prahalad doesn't take Garlic & onion on Thursday due to religious reasons.We shortlisted 3 restaurant and the details are as follows.
- Hyderabadi house:Serves Chicken biryani & mutton,
- Shanti sagar :Serves vegeterain thali,dosa,IDLy,Curd rice,Jain food also avl(no garlic & onion)
- Urban Dhaba-Provide north Indian roti & subzi,made with onion & garlic.

  Reasoning: As I can take only from pure veg restaurant,Hyderabdi house is eliminated,Urban dhaba provides veg ,but it can't provide jain food,which Prahalad require as today is Thursday,and only option left is shanti sagar.

  Answer:Shanti sagar.

## E. Instruction Tuning / Format Control

- 15. Output Formatting: Summarize the article below in exactly 3 bullet points.
  We labindia instruments private limited sell electron microscope with ranges from CSEM,FESEM,FIB,XRAY CT for nano material research.

  Output
- ☐ **Labindia Instruments Private Limited** offers a variety of electron microscopes.
- ☐ Their product range includes **CSEM, FESEM, FIB, and X-RAY CT** technologies.
- ☐ These instruments are specifically designed for **nanomaterial research**

  **Reasoning:As we asked the system to provide output format in 3 bullets,it summarised what we provided as 3 bullet points.**

- 16. Table Generation: Create a table comparing [A], [B], and [C] based on [criteria].

## Comparison: A vs. B vs. C Prompt Template Styles

| Criteria | A. Basic Prompt Templates | B. Persona-Based Prompt Templates | C. Few-Shot Prompt Templates |
|---|---|---|---|
| **Definition** | Simple structure, asks directly for a task | Sets a role or identity before asking for a response | Provides labeled examples to guide the model's response |
| **Clarity** | High clarity, easy to understand | Very clear within assumed context | Very clear with prior examples, but slightly longer |
| **Context/Depth** | Low context, works for general tasks | Adds depth by assigning a point of view or role | Medium to high context with examples before asking the question |
| **Tone/Voice Control** | Neutral tone | Can take on expert, child, teacher, doctor tones, etc. | Learns tone from examples (flexible) |
| **Example Use Case** | "Explain gravity in simple terms." | "You are a science teacher. Explain gravity to 5th grade students." | "Classify the following: A=fruit, B=vegetable. Apple=A, Tomato=B" |
| **Strengths** | Fast, direct, beginner-friendly | More relatable, adds personality and real-life relevance | Highly accurate, great for classification or formatting tasks |

| Criteria | A. Basic Prompt Templates | B. Persona-Based Prompt Templates | C. Few-Shot Prompt Templates |
|---|---|---|---|
| **Weaknesses** | May lack nuance or detail | May over-personalize or drift from the core task | Can become long or overfitted to the example style |
| **Best For** | Definitions, translations, short answers | Explanations, storytelling, teaching | Sentiment, categorization, pattern learning |

- 17. Email Writing: Write a professional email to Dr.Narasimha IIT Hyderabad regarding requirement TESCAN TIMA.

  **Subject:** TESCAN TIMA – Quotation and Application Notes as Discussed

  Dear Dr. Narasimha,

  Greetings from **Labindia Instruments**.

  Following our recent phone conversation, I am pleased to share the **quotation and relevant application notes** for the **TESCAN TIMA (Integrated Mineral Analyzer)** system. As the official representatives of **TESCAN Brno** in India, we are committed to supporting your interests in advanced mineralogical and microstructural analysis.

  The attached documents include:

  - Commercial quotation tailored to your requirements
  - Application notes highlighting key features, use cases, and analytical capabilities of the TIMA system

  We hope this information helps in your evaluation, and we would be happy to provide any additional technical details or arrange a demo, if needed. Please feel free to reach out with any queries or for further discussion.

  Thank you once again for your valuable time and interest.

  Regards

  Raj
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  Bangalore - 560079

## F. Contextual Prompts

- 18. Tailored Explanation: Explain E-beam lithography to a 10 year old with addiction to mobile for games & you tube cartoons.

- **Hey Kid!**
  How many games do you play on your mobile? If the answer is more than 10, then guess what? **E-beam lithography** is one of the secret superheroes that helps your phone become powerful enough to play **even more games**!
- Now imagine this:
  Do you like coloring **TOM** from Tom & Jerry? You can color him using a **crayon** or a **sharp pencil**, right?
  - Crayon is **fast**, but the lines are a bit **thick and not so clear**.
  - Pencil is **slow**, but gives **very sharp, clean lines**.
- **E-beam lithography** is like using a **super tiny pencil** — so sharp it can draw a line **10,000 times thinner than your real pencil!** 🍥 🖊 That's how we draw the tiny parts inside your phone's chip!
- And the word **"Litho"** means **writing or drawing**. Just like you write with a pen, scientists use **an electron beam** as their pen. Not crayon, not pencil, not even an ink pen — but a beam of tiny electrons!
- That's how they draw super small circuits inside your phone, so it can play all your favorite games and cartoons without slowing down!

- 19. Industry-Specific Context: As a Automobile expert , explain how Hydrongen fuelcell impacts Automotive industry.

- Hydrogen fuel cell vehicles (FCEVs) are zero-emission, producing only water vapor, and are ideal for long-distance and commercial use due to their long driving range and quick refueling time of under 5 minutes. They are especially suited for heavy-duty vehicles like buses and trucks where battery weight and charging time are limiting factors. FCEVs help reduce dependence on fossil fuels and support clean mobility goals. Rather than competing with battery electric vehicles, hydrogen technology complements them. However, the widespread use of FCEVs faces challenges like limited hydrogen refueling infrastructure and the high cost of producing green hydrogen. Despite this, global automakers and governments are investing heavily in hydrogen as a clean energy

source, making it a promising solution for the future of sustainable, high-performance transportation.

## G. Creative Writing Prompts

- 20. Story Writing: Write a short story about Ekalivan who want to become great archer. but faces problem of Guru DRONACHARYA not willing to teach him..

  Ekalavya, a tribal boy from the forests near Hastinapura, dreamed of becoming the greatest archer, like Prince Arjuna. Rejected by Guru Dronacharya for not being a royal, he built a statue of Drona and trained alone with unmatched dedication. His skills grew so powerful that even Drona was astonished. Fearing Ekalavya might surpass Arjuna, Drona asked for his right thumb as guru dakshina. Without hesitation, Ekalavya offered it, sacrificing his future to honor his guru — becoming a timeless symbol of devotion, sacrifice, and inner strength.

- 21. Poem Writing: Write a poem in jack & Jill nursery Rhyme about AI.
  ANS:
  AI went out to learn about doubt,
  And searched the web throughout.
  It read and wrote both day and night,
  Till answers shone so bright.
  Now it helps with brains, not clout!

- 22. Dialogue Writing: Write a dialogue between [Person A] and [Person B] discussing about social eagle chennai AI course.
  Ans: **Person A:** Have you checked out the Social Eagle AI course in Chennai?
  **Person B:** Not yet! What's it all about?
  **Person A:** It's a hands-on course that teaches how to use AI tools for digital marketing, content, and business.
  **Person B:** That sounds super useful — Chennai finally has something like this locally

## H. Code & Technical Prompts

- 23. Code Generation: Write a Python function that calculates the total cost of items in a shopping cart, including tax..
- def calculate_total(cart_items, tax_rate=0.08):
- """
- cart_items: list of (item_name, price) tuples
- tax_rate: tax percentage as a decimal (default is 8%)
- """
- subtotal = sum(price for item, price in cart_items)
- tax = subtotal * tax_rate

- total = subtotal + tax
- return round(total, 2)
- 
- # Example usage
- shopping_cart = [("Notebook", 50), ("Pen", 10), ("Bag", 120)]
  print("Total amount to pay:", calculate_total(shopping_cart))  # Output: Total amount to pay: 194.4

  24. Debugging Help: Here is print{RAJ}python code . Find and fix any errors.
  Ans:
- **Explanation:**
  - print is a function, so it needs ().
  - "RAJ" is a string and must be in quotes (either "RAJ" or 'RAJ' is fine).


- 25. API Documentation: Explain how to use the chatgpt4 mini API  with an example request and response.
- **How to Use GPT-4o (ChatGPT-4 Mini Equivalent) via API**
- 📌 **Step 1: Get API Key**
  - Sign up or log in at: https://platform.openai.com/
  - Go to **API Keys** and create one.
- 📌 **Step 2: Install OpenAI Python SDK**
- bash
- CopyEdit
- pip install openai
- 📌 **Step 3: Example API Request in Python**
- python
- CopyEdit
- import openai
- 
- openai.api_key = "your_api_key_here"
- 
- response = openai.ChatCompletion.create(
- model="gpt-4o",  # GPT-4 mini equivalent
- messages=[
- {"role": "system", "content": "You are a helpful assistant."},
- {"role": "user", "content": "Explain AI to a 10-year-old."}
- ]
- )
- 
- print(response['choices'][0]['message']['content'])
-

- 💡 **Sample Output**
- text
- CopyEdit
- AI is like a robot brain that lives inside computers. It helps people do things like talk to phones, play games

- curl https://api.openai.com/v1/chat/completions \
-   -H "Authorization: Bearer YOUR_API_KEY" \
-   -H "Content-Type: application/json" \
-   -d '{
-     "model": "gpt-4o",
-     "messages": [
-       {"role": "system", "content": "You are a helpful assistant."},
-       {"role": "user", "content": "Explain AI to a 10-year-old."}
-     ]
      }'

## I. Marketing & Business Prompts

- 26. Ad Copywriting: Write an ad for TESCAN electron microscope targeting Indian scientist..

- ───────────────────────────
- 🧪 Unlock the Nanoscale Universe with TESCAN Electron Microscopes 🔬
- Are you an Indian scientist pushing the frontiers of materials, biology, or semiconductor research? Discover **unparalleled resolution**, **flexible detectors**, and **in-situ capabilities** with **TESCAN's world-class FESEM, FIB-SEM, and micro-CT platforms**.
- From **AMBER X2** to **TENSOR 4D STEM**, TESCAN delivers the precision, speed, and reliability your lab demands.
- ✅ Designed for India's leading R&D labs
  ✅ Expert local support through **LABINDIA Instruments Pvt. Ltd.**
  ✅ Powerful tools for imaging, analysis, and sample prep
- 🚀 Ready to take your research to the next level?
  Visit us at **EMSI 2025** or contact LABINDIA for a demo!

- 27. Product Description: Write a product description for TESCAN MIRA XR.

    MIRA XR ,A ultra high resolution scanning electron microscope with 5-axis motorized stage movement of x,y-130,Z-100,T—70 to 90 ,R 360 with Inlens Secondary electron detector and In lens BSE detector ,with image storage capability of 16kx16k and acceleration voltage of 200v to 30kv with a resolution of 1.0nm215kv.

- 
- 28. Social Media Post: Create a social media post promoting LAbindia participation in EMSI 2025.
  We are 43 years old company in the field of analytical instruments representing TESCAN in inida participating in EMSI 2025 venue JN tata auditorium Bangalore and you can visit us to get to know about latest products like TESCAN Tensor,spectral Ct,Amber x ,and want to take up carrier in sales & service of electron microscope,want to write funding proposals,and like to do sample analysis,we provide solution to all your requirements,please meet us at EMSI.

  Please create an linked in post for the above context.

  https://www.linkedin.com/posts/rajagopal-a-8288921b_home-iisc-bangalore-india-activity-7348952888905224194--Gce?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAQ5OyABBrn2k9ki0yAGqVZLOtIU4SSb74c

## J. Customer Support & Service Prompts

- 29. Response to Complaint: Respond professionally to this customer complaint.
  Good morning ,how can I help you,we are sorry to hear you are facing this problem,I am directing this to Mr,Sakthi rajan,and he will attend your problem by tomorrow at 10:30am,In case you want to postpone the visit please let me know.You will receive a feedback form once service is completed kindly give your feedback on that.
- 30. FAQ Generator: Generate 5 common FAQs and answers for WIFI checking.
  I am not able to connect to WIFI network?
  Are you able to see WIFI network in your laptop,
  If answer no,please check whether WIFI turned on in your laptop by clicking network icon from tray.
  It was off I turned on,now it is working.
  Is anything else I can do,do you want an instruction how to test the speed of your WIFi.
  Yes please
  Open okkala speed test in your browser or mobile.
  Press start,it will upload & download a small file and will give you the speed of your network.
  IS it ok or poor.
  Poor,please check whether you logged to 5ghz network from your router,your router will have 2.5ghz and 5 ghz.
  Ok now.

# K. Education & Tutoring Prompts

- 31. Lesson Plan Creation: Create a lesson plan for teaching A-z to LKG].

## 👦 Lesson Plan: Learning A to Z (Alphabets)

**Grade Level:** LKG (Age 3–5)
**Duration:** 1 Week (Daily 45–60 minutes)
**Objective:**
Students will be able to recognize, pronounce, and associate each letter from A to Z with familiar words and objects.

| Day | Letters Covered | Activities | Teaching Aids |
|---|---|---|---|
| Day 1 | A, B, C | Alphabet song, flashcards, coloring "A–B–C" | Chart, toys (Apple, Ball, Cat), worksheets |
| Day 2 | D, E, F | Letter tracing, object matching | Doughnuts, Egg, Fish cutouts |
| Day 3 | G, H, I | Phonics sounds, song & dance for each letter | Goat, Hat, Ice cream toys |
| Day 4 | J, K, L | Show-and-tell, flashcard quiz | Jug, Kite, Lion props |
| Day 5 | M, N, O, P | Letter hunt in classroom, coloring fruits/animals | Mango, Nest, Orange, Parrot flashcards |
| Day 6 | Q–U | Phonics game, clay modeling of letters | Queen, Rabbit, Sun, Tree, Umbrella figures |
| Day 7 | V–Z | Revision A–Z, sing alphabet song with actions | Van, Watch, X-ray, Yo-yo, Zebra models |

- 📚 **Assessment**
  - **Oral recognition** of letters
  - **Matching letters** to objects
  - **Simple tracing worksheet**

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- 🎉 **Closure Activity**
  - **Alphabet parade**: Kids hold props for each letter and sing A–Z together.
  - **"My Alphabet Book"**: Each child gets a takeaway book with letters and drawings they colored

- 32. Quiz Generation: Generate a 5-question quiz about 7 wonders of the world.

## 🌐 Quiz: 7 Wonders of the World

**1. Which one of the 7 Wonders is located in India?**
A) Great Wall of China
B) Machu Picchu
C) Taj Mahal
D) Petra

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**2. The statue of Christ the Redeemer overlooks which city?**
A) Rome
B) Rio de Janeiro
C) Mexico City
D) Madrid

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**3. The ancient city of Petra is famous for being carved into what?**
A) Trees
B) Mountains
C) Rocks
D) Sand dunes

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**4. Which wonder is a massive amphitheatre in Rome, Italy?**
A) Machu Picchu
B) Colosseum
C) Chichén Itzá
D) Great Pyramid

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**5. Which wonder is a ruined city of the Inca Empire located in Peru?**
A) Petra
B) Chichén Itzá
C) Machu Picchu
D) Colosseum

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- 33. Homework Help: Explain how to solve this Mystery of **continuous water flow** from the Nandi statue at **Sri Dakshinamukha Nandi Tirtha Kalyani Kshetra** .
Could be due to Natural aquifier.
Ancient rainwater harvesting.
Geology as the temple located below ground and water might flow form near by higher altitude.

## L. Advanced Framework-Based Templates

- 34. ReAct Framework: Simulate agent behavior with Thought > Action > Observation > WHY Car is not starting under react framework.

| Step | Type | Detail |
|---|---|---|
| 1 | Thought | For a car to start, the battery and starter motor must function properly. |
| 2 | Action | Turn on car lights or audio to check battery status. |
| 3 | Observation | Lights are dim or off → possible weak battery or corroded terminals. |
| 4 | Thought | Could be low battery charge or poor contact at battery terminals. |
| 5 | Action | Open bonnet, clean terminals with alcohol, apply petroleum jelly, refix. |
| 6 | Observation | Lights now bright? Retry starting car. |
| 7 | Thought | If lights OK but car doesn't start → starter motor (actuator) may be bad. |
| 8 | Action | Try jump-start or battery replacement. |
| 9 | Observation | Still not starting → Likely actuator issue. |
| 10 | Answer | Cause: Battery issue or faulty starter. Call service if unresolved. |

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- 35. Tree of Thoughts (ToT): Generate 3 possible solutions and choose the best one.
**Tree of Thoughts (ToT)** framework to decide the **best route** from **Kaggadasapura, Bangalore** to **Social Eagle AI office, Chennai**:

- 🌳 **Tree of Thoughts: Choosing Route to Chennai (Updated Options)**

| Thought | Route | Details | Pros | Cons | Verdict |
|---|---|---|---|---|---|
| 1 | **NE8 → V Kota → Pernampet → Gudiyatham → Pallikonda → Sriperumbudur → Social Eagle** | Fastest, newly developing expressway (50km completed), lowest tolls | ✅ Shortest distance ✅ Fastest in real-world ✅ Less toll ✅ Bypasses major traffic zones | ❌ Some patchy road sections (ongoing work) ❌ May lack facilities/stops | 🟢 **Best for speed, economy, and low traffic** |
| 2 | **Palamaner → Chittoor → Ranipet → Chennai** | Good roads till Chittoor, ~30km two-lane, joins NH near Ranipet | ✅ Comfortable 4-lane roads ✅ Less traffic ✅ Balanced route | ❌ ~30km of 2-lane road ❌ Slightly longer than Option 1 | 🟡 **Best for steady driving comfort with moderate speed** |
| 3 | **Hosur → Krishnagiri → Ambur → Vellore → Chennai** | Conventional highway route via NH 44 & NH 48 | ✅ Fully developed ✅ Easy fuel/food stops ✅ Google-favoured path | ❌ Longest distance ❌ Highest tolls ❌ KR Puram traffic and three-state tax issues for buses | 🔴 **Avoid unless absolutely needed or on luxury vehicle** |

- ✅ **Final Decision (Chosen Leaf in ToT Tree):**
- **Option 1 – via NE8 → V Kota → Gudiyatham**

- This route offers the **fastest travel**, **lowest toll**, and avoids **high-traffic zones**. Ideal for personal cars and efficient commutes to Chennai from East Bangalore.

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- 36. Self-Consistency Prompting: Solve question in 3 ways and pick the consistent one.
  Q.I use 2 GB of data everyday compare following plans.
- ⬜ **Plan A**: ₹249 for 28 days, 1.5 GB/day
- ⬜ **Plan B**: ₹299 for 28 days, 2 GB/day
- ⬜ **Plan C**: ₹719 for 84 days, 2 GB/day
  Which plan is best in terms of value for money consistently.

  Ans:cost per month,per Gb,per 3 month,PLAN c is consistently value for money.

## M. Prompt Optimization & Evaluation

- 37. Prompt Refinement: Improve this prompt for clarity.
  Original prompt: Which phone is better.
  Refined prompt: Which phone is better among oneplus 13s,Samsung s25 and nothing phone 3 pro,camera,battery,AI capability,display,Processor,RAM & Storage options.

| Feature | OnePlus 13s | Samsung S25 | Nothing 3 Pro |
|---|---|---|---|
| 🏝 Size | 6.3″, compact flagship | 6.2″, smallest flagship | 6.67″, larger mid-flagship |
| 📷 Camera | Dual 50 MP + 32 MP selfie | Triple-lens reliable | Triple 50 MP, less refined |
| 🔋 Battery | 5850 mAh, 80 W fast | 4000 mAh, excellent endurance | 5150–5500 mAh, 65 W |
| 🤖 AI | Gemini voice assistant | Full Galaxy AI suite | Nothing OS smart basics |
| 🧠 Chip & RAM | Snapdragon 8 Elite, 12–16 GB | Snapdragon 8 Elite, 12 GB | Snapdragon 8s Gen 4, 12–16 GB |
| 💾 Storage | 256/512 GB UFS4.0 | 128–512 GB (Ultra/Edge 1TB) | 256/512 GB UFS3.1 |
| 🎨 Display | 120 Hz ProXDR A++ | 120 Hz LTPO AMOLED 2600 nits | 120 Hz OLED 4500 nits |

- 38. Prompt Grading Rubric: Rate this output on relevance, clarity, creativity, etc.

| Criteria | Score (1–5) | Justification |
|---|---|---|
| Relevance | 5 | The answer directly compares the phones requested. |
| Clarity | 5 | Well-written with clear formatting, emojis for visual clarity. |
| Accuracy | 4 | Mostly accurate specs and pricing; pricing changes often, so this could shift. |
| Creativity | 4 | Uses helpful summaries, comparisons, and table formatting to enhance readability. |
| Depth/Detail | 5 | Covers all requested areas in detail: camera, battery, AI, etc. |
| Structure/Formatting | 5 | Clearly structured with tables, bullets, headers. |

- 39. Prompt Iteration Challenge: Rewrite prompt 3 times to improve effectiveness.
  Original.Give me a marketing strategy."
  1.Give me a marketing strategy for launching a new fitness app targeting urban professionals aged 25–40 in India
  2.Suggest a 3-month digital marketing strategy for launching a fitness app in India targeting working professionals (25–40), focusing on Instagram, YouTube, and influencer partnerships."
  3.Design a 3-month digital marketing plan to launch our fitness app in India for professionals aged 25–40, using Instagram and YouTube. Include estimated monthly budget (₹3–5L), KPIs like CAC, CTR, and app downloads.

## N. Real-World Application Prompts

- 40. Job Posting Creation: Write a job posting for Product manager at Labindia.
- Job Title: Product Manager – TESCAN Electron Microscopes
- 📍 Location: Bangalore, India
- 🏢 Company: Labindia Instruments Pvt. Ltd.
- 🕐 Experience: 5+ years

- 💼 Type: Full-Time
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- About the Role
- 
- Key Responsibilities
- 
- Educcation Requirements
- 
- Benefits
- 
- 

  ✉ Apply: Send your resume to [careers@labindia.com] with subject: "Product Manager – TESCAN"
- 41. Resume Summary Builder: Create a resume summary from given details. Experienced product and application specialist with over 5 years in the scientific instrumentation industry, specializing in electron microscopy (SEM/FIB). Strong academic background in Physics/Materials Science, combined with hands-on expertise in high-end analytical tools. Proven track record in managing product lifecycles, supporting technical sales, conducting market analysis, and leading customer training and demonstrations. Adept at collaborating with cross-functional teams, driving product adoption, and representing advanced technologies at conferences and workshops. Looking to leverage my experience to lead the TESCAN product line at Labindia Instruments Pvt. Ltd.
- 42. Business Proposal: Write a proposal for Tap water heater using low cost steamer.
- **Proposal: Low-Cost Tap Water Heater Using Steamer Technology**
- **Objective**:
  Develop a compact, affordable, plug-and-play tap water heater using a repurposed steamer heating element for instant hot water in homes, hostels, salons, and semi-rural areas.
- **Concept**:
  - Use a mini steamer coil to heat water on demand
  - Attach directly to standard taps
  - Operates on 230V AC, 600W–1000W
  - Built-in thermostat for safety
  - Output: Warm water suitable for washing, shaving, etc.
- **Advantages**:
  - Cost-effective (₹400–₹500 unit cost)
  - No plumbing changes needed
  - Portable and energy-efficient
  - Ideal for areas with limited hot water infrastructure
- **Target Users**:
  Low-income households, small clinics, hostels, salons, rural homes

- **Estimated Cost Breakdown**:
  - Heating coil: ₹150–₹250
  - Housing: ₹100
  - Thermostat: ₹100
  - Wiring & others: ₹50
- **Next Steps**:
  - Prototype development
  - Safety testing
  - Field trials in target segments

## O. Miscellaneous Useful Templates

- 43. Opinion Writing: Write an opinion piece on FREEBIES in karnataka.

### Freebies in Karnataka: Empowerment or Election Gimmick?

Karnataka has seen a surge in welfare schemes like free electricity, bus rides for women (*Shakti*), and direct cash transfers (*Gruha Lakshmi*). While these initiatives aim to uplift marginalized groups, they raise serious concerns about **fiscal sustainability** and **political intent**.

On the positive side, such schemes improve mobility, financial inclusion, and social recognition—especially for women. However, with an estimated annual cost exceeding ₹50,000 crore, they **strain state finances** and risk underfunding essential sectors like health, education, and infrastructure.

More critically, these giveaways often peak around elections, suggesting they are more about **vote politics than long-term planning**. Freebies should be **targeted, transparent, and time-bound**—not blanket offers that foster dependency.

Welfare must empower, not entice. Karnataka needs **policy-driven governance**, not populism on autopilot.

- 44. Debate Preparation: Prepare arguments for both sides: Freebies in karnatka.
- ✅ **Arguments in Favor of Freebies:**
  - **Social Justice**: Helps uplift women, the poor, and rural communities (e.g., *Gruha Lakshmi*, *Shakti* schemes).
  - **Economic Relief**: Eases daily cost burden for low-income households.
  - **Increased Access**: Encourages use of public transport, education, and healthcare.
  - **Redistribution**: Helps bridge the wealth gap in a growing economy.
  - **Global Practice**: Welfare schemes are common worldwide—freebies aren't uniquely Indian.
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- ❌ **Arguments Against Freebies:**
  - **Financial Strain**: Over ₹50,000 crore in annual spending risks debt and cuts to essential infrastructure.
  - **Political Gimmick**: Often timed before elections, not built for long-term impact.
  - **Dependency Culture**: May reduce motivation to work or upskill.
  - **Not Targeted**: Universal schemes benefit even the undeserving, wasting taxpayer money.
  - **Neglects Core Needs**: Funds diverted from roads, schools, and job programs.
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- ⚖️ **Bottom Line:**
- Freebies should be **targeted, temporary, and sustainable**—not tools for **short-term vote banks**. Smart welfare, not blanket handouts, is the way forward.

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- 45. Travel Planning: Plan a 5-day trip to Kerala for single person.
- 🌴 **Kerala Solo Trip – 5 Days Itinerary**
- 1️⃣ **Day 1 – Kochi (Culture & Heritage)**
  - Explore Fort Kochi: Chinese Fishing Nets, Dutch Palace, Jew Town
  - Watch Kathakali performance
  - **Stay**: Fort Kochi
- 2️⃣ **Day 2 – Munnar (Hill Station)**
  - Travel to Munnar (5 hrs)
  - Visit Tea Museum, walk through plantations
  - **Stay**: Munnar
- 3️⃣ **Day 3 – Munnar Sightseeing**
  - Eravikulam National Park, Echo Point, Mattupetty Dam
  - Optional: Trek or zipline
  - **Stay**: Munnar
- 4️⃣ **Day 4 – Alleppey (Backwaters)**
  - Travel to Alleppey (5–6 hrs)
  - Houseboat or shikara ride
  - **Stay**: Houseboat or homestay
- 5️⃣ **Day 5 – Marari Beach + Departure**
  - Morning at Marari Beach
  - Return to Kochi for flight/train
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- 💰 **Estimated Budget: ₹12,000 – ₹20,000 (Stay, food, travel)**
- ✅ Best for: Nature, culture, relaxation
  - ✅ Tips: Book houseboat in advance, use KSRTC for budget travel
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- 46. Book/Movie Review: Write a review with summary and opinion.
  Movie Name:Enthiran.
  This
- 47. Personal Development: Advice to achieve <mark>JOB CHANGE</mark> with habits and mindset.
  Chatgpt compressed answer.
  If you're aiming to switch to a **Product Manager role in Electron Microscopes**, focus on aligning your scientific knowledge with strategic product thinking. Update your resume to highlight achievements in technical sales, customer engagement, and cross-functional collaboration—use tools like Rezi or ChatGPT to refine it. Upskill with short courses on product management and refresh your understanding of SEM/TEM technologies. Build your presence on LinkedIn, connect with professionals at companies like TESCAN or Thermo Fisher, and engage in relevant forums. Practice interviews using tools like Interview Warmup or simulate Q&A with ChatGPT. Stay current with market trends and competitor insights using AI-powered research tools for a competitive edge.

## P. Prompt Chaining Examples

- 48. Multi-step Research Task: Find top 5 causes > suggest solutions.
  Research Task:Bangalore traffic JAM.
  5 Causes : Poor last mile connectivity,crowded public transport,No direct buses/metro need to change 1-2 times to reach destination,Manually operated signal during peak hours,Non synchornised signals,Near 1:1 vechicle population.
  Solutions: Approve Bike-taxi,E-rickshaw,run mini buses,introduce new bus routes to avoid change over,Allow the AI signal to learn during peak hour traffic,synchronise signals so that you won't stop at every signal,increase taxes and provide incentives for individual & corporate who encourage public transport.(Eg:Infosys/corporate buses should also pick public till their capacity is reached to reduce the number of vechicles flying in that specific road),integrate,metro,BMTC to major junctions like city centre,airport.(complete airport metro),Build tunnels in congested signals rather than building tunnel for 16 km.

- 49. Idea to Execution:
  Idea: Smart Tap Water Heater using Low-Cost Steamer Unit.
  Need:City like Bangalore it is difficult o use cold water for kitchen,washbasin etc, Marketing strategy.
- 🔹 **USP**: "Instant hot water under ₹1/day – no geyser needed"
- No need of 16a Plug.You can also get stream if you reduce the water flow.
- No metal
- 🔹 **Digital Ads**: Short demo videos on YouTube, Instagram Reels
- 🔹 **Influencer Outreach**: Partner with DIY/home utility influencers
- 🔹 **Local Campaigns**: Target housing societies, plumbers, kirana stores

- 🟦 **Referral Program**: Offer ₹50 cashback for every new buyer referred

## Q. Prompt Template Generator

- 50. Universal Prompt Builder: [Role] + [Task] + [Context] + [Example] + [Format]
  You are a financial advisor. Explain what a mutual fund is to a beginner investor who wants to start a SIP but has no prior financial knowledge. Use everyday language and analogies, like comparing mutual funds to a money basket or school fund. Format your answer as two short, simple paragraphs suitable for a WhatsApp message.