

# GENERATIVE AI CHATBOTS TEACHER-LED

In the teacher-led AI chatbot approach, the educator is the conductor of an interactive learning session where the whole class participates in a collective experience. Using an AI platform, the teacher directs a conversation with the chatbot, which takes on various personas — from historical figures and literary characters to abstract concepts. The entire class is engaged in this process, with the teacher acting as the intermediary who inputs the students' questions and prompts into the AI.

This format encourages group discussion, critical thinking, and a sense of community as students collaboratively explore the topics at hand. Importantly, it is done in a controlled way, where the teacher is leading the experience.

## How to Implement:

- **Selecting the Right AI Platform:** Choose an AI platform that allows for conversational interactions and is capable of assuming various identities and roles relevant to educational content.
- **Designing Effective Prompts:** Develop prompts that guide the AI to respond from the perspective of the chosen role. Prompts should be thoughtfully designed to provoke responses that are not only informative but also reflective of the persona's time, place, or conceptual viewpoint.
  - For example, to simulate a dialogue with Marie Curie, you might use a prompt like, *"You are Marie Curie speaking to a class of aspiring young scientists. How would you describe your discovery of radium?"*
- **Test the Chatbot:** Before introducing the chatbot to your class, conduct tests to ensure its responses are accurate and appropriate for the educational setting.

## Interactive Demonstrations:

- **Introduce the Chatbot:** Begin by explaining to students the role the AI will play and its relevance to the lesson.
- **Project the Chatbot:** Display the AI's interface using a classroom projector or smartboard, making sure all interactions are visible to the entire class.
- **Live Interaction:** Enter your prepared prompts and display the chatbot's responses, allowing the class to follow along as the conversation unfolds.
- **Student Involvement:** Open the floor for students to pose their own questions within the role-play scenario, fostering a sense of participation and exploration. You may get students to record their questions using sticky notes, exercise books, mini whiteboards etc.
- **Analyze Responses:** After the chatbot provides an answer, take time to discuss with the class the substance and educational value of the response.

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There are endless ways to prompt a Generative AI chatbot for dynamic classroom interactions. The following table outlines various role-play scenarios that can enhance students' understanding and engagement with different subjects. Each scenario is paired with an explanation and an example prompt to illustrate how chatbots can bring these roles to life.

| Role-Play Scenario               | Explanation   | Example Prompt   |
|----------------------------------|---|--|
| <b>Historical Interviews</b>     | Engages students by embodying historical figures to explore events from a first-person perspective.             | "You are Leonardo da Vinci, and we are going to interview you about your life and inventions."                   |
| <b>Literary Character Debate</b> | Facilitates debates with chatbots representing characters from literature, exploring motivations and conflicts. | "You are Elizabeth Bennet from 'Pride and Prejudice'. Discuss your views on marriage and society."               |
| <b>Science Personification</b>   | Personifies scientific concepts or elements, making abstract ideas more tangible.                               | "Imagine you're a water molecule. Tell us about your journey through the water cycle."                           |
| <b>Math Problem Storytelling</b> | Narrates mathematical problems as stories or scenarios, making concepts more relatable.                         | "You're a treasure hunter. Describe how you use algebra to find the hidden treasure."                            |
| <b>Language Practice</b>         | Supports language acquisition by conversing in a foreign language, offering practical usage scenarios.          | "You are a tour guide in Paris. In French, tell us about your city and the places we might visit."               |
| <b>Art Critique Session</b>      | Assumes the role of an art critic or artist, offering insights into art pieces and techniques.                  | "Pretend you're an art critic. Let's discuss the impact of the Renaissance on modern art."                       |
| <b>Significant Person</b>        | Takes on the role of notable individuals from various fields to discuss their contributions and experiences.    | "You are Serena Williams. We're interested in hearing about your journey to becoming a world champion."          |
| <b>Virtual Field Trip Guide</b>  | Leads virtual tours of historical sites or natural wonders, providing informative and engaging narratives.      | "You are a guide at the Egyptian pyramids. Share with us the history and mysteries of these ancient structures." |