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**ARTIFICIAL INTELLIGENCE TOOLS FOR DEVELOPING COMMUNICATIVE
COMPETENCE IN ENGLISH AS A SECOND LANGUAGE EDUCATION**

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Abstract: This scientific article explores the role of artificial intelligence (AI) tools in developing communicative competence in English as a Second Language (ESL) education. With the rapid advancement of AI and generative AI (GenAI) technologies, their application in teaching and learning is expanding, offering new opportunities to enhance both instructional practices and student engagement. The paper outlines best practices for integrating AI into the educational process, highlights practical use cases such as intelligent tutoring systems, automated grading, Chabots, and content generation, and examines how these tools can foster fluency, interaction, and personalized learning. At the same time, the study addresses challenges associated with the use of AI, including ethical concerns, privacy risks, and the potential for overreliance. By evaluating both the benefits and limitations of AI, the article emphasizes its potential to complement traditional methods, support teachers, and contribute to the effective development of communicative competence in ESL learners.

Keywords: Artificial Intelligence; Generative AI; Communicative Competence; English as a Second Language; ESL Education; Language Teaching; Educational Technology; Chatbots; Personalized Learning; AI in Education

AI serves as a powerful tool with the potential to transform traditional practices and unlock new opportunities. But in what specific ways does this happen? In our scientific article we are exploring several key examples of how AI can reshape and enhance the way your organization connects with its audience.

AI-powered virtual assistants and Chatbots—such as FAQ bots—are transforming communication by enabling instant interactions, simulating natural conversations, guiding users, and delivering relevant information. Their efficiency not only ensures faster responses but also reduces the workload on human staff, allowing them to focus on more complex tasks and ultimately enhancing overall communication effectiveness.

With the rapid progress of artificial intelligence (AI) and generative AI (GenAI), their presence is expanding across all industries—including education. These technologies can support educators by automating administrative work, assisting with lesson planning, and enhancing the overall learning experience. However, their adoption also comes with certain risks that must be carefully managed.

Before delving into the role of AI in education, it is useful to establish a basic understanding of AI and GenAI.

Artificial intelligence (AI) refers to computer systems designed to carry out tasks that would normally require human intelligence, such as recognizing speech, making decisions, or identifying patterns. The term covers a range of technologies, including *machine learning*, which uses algorithms, and deep learning, which relies on neural networks modeled after the human brain.

In educational settings, the most common form of AI you are likely to encounter is generative AI (GenAI). GenAI enables users to enter prompts that produce new content, including text, images, code, and other forms of media.

Most GenAI tools are built *on natural language processing (NLP)*, which allows them to understand and respond to everyday human language. This makes them highly user-friendly. Popular examples include ChatGPT and DALL·E. With the support of NLP, educators and learners can take advantage of AI’s capabilities without needing to grasp its underlying technical complexity.

Our research outlines best practices for applying AI in education, highlights practical use cases, and addresses potential challenges. It will also introduce specific AI tools and demonstrate how they can be integrated into educational strategies.

AI’s capacity to generate content on demand streamlines the creation of press releases, articles, and social media posts. By detecting and interpreting data patterns, AI tools produce material that reflects a brand’s voice, ensuring consistent, high-quality communication while saving time and increasing agility.

This capability is particularly valuable in crisis situations, where speed and accuracy are critical. AI-powered content generation allows students to craft timely, relevant messages, counter misinformation, and maintain control of the narrative. By aligning output with brand tone, AI supports both consistency and reputation management in challenging circumstances.

AI tools can evaluate speech tone and voice intonation across different communication channels, offering valuable insights into how audiences interpret a brand or specific messages.

A major advantage of incorporating AI into student communication strategies is its capacity to simplify learning processes by automating tasks that typically demand extensive human effort. Activities such as data analysis, content generation, and student interaction can be handled by AI, freeing educators and communication specialists to concentrate on more strategic and creative responsibilities.

This shift not only boosts efficiency but also saves considerable time, enabling teams to respond more effectively to the fast-changing demands of modern communication.

AI and GenAI are continually evolving, and it is important to approach them with this in mind. When integrating these tools into your workflow, remember that they are meant to enhance and extend existing practices, not replace them.

Four key recommendations for using AI in education:

1. *Prioritize human connection.* The teacher–student relationship remains central to learning, and no technology can replace it. Test AI tools carefully, apply your expertise, and adapt processes to meet learners’ needs.
2. *Adopt a system-wide approach.* Aligning school boards, administrators, and teachers on an AI strategy ensures that the technology’s benefits can be maximized while safeguarding both students and institutions from potential risks.
3. *Integrate proven teaching principles.* Since AI learns from available data, it may lack the most up-to-date knowledge. Draw on your research and professional judgment to guide AI use within sound pedagogical practices.
4. *Stay informed.* Because AI technology evolves rapidly, it is essential to keep track of app updates, new tools, and emerging trends. Staying current with AI and GenAI developments will help you use these resources more effectively.

Just as AI benefits many sectors of society, its use in education can also bring numerous advantages. Below are some practical applications of AI in the classroom:

Automating administrative tasks: AI can handle routine activities such as scheduling, forming student project groups, and carrying out simple assessments. It can also assist in generating lesson plans, worksheets, and emails, reducing the teacher’s workload.

Supporting research and idea generation: AI tools can aid both educators and students in the research and brainstorming process. For example, ChatGPT can generate essay prompts on a specific topic, clarify questions, or suggest new directions for exploration.

Personalizing learning: By tracking student progress, AI can help identify areas where learners need additional support. Educators can then design individualized learning plans and assignments that address each student’s unique needs.

While AI offers many benefits, it also presents challenges and risks that educators should consider before introducing it into the classroom:

Ethical concerns and bias: Since AI systems are built on human-generated data and design, they may inherit human biases. It is essential to evaluate the ethical standards of the tools you choose and remain mindful of potential bias when reviewing AI-generated output for instructional use.

Privacy considerations: Many AI tools store and analyze input data to improve their responses. For this reason, avoid entering sensitive or personal information about students or teachers. Always review the data and privacy policies of any AI platform you plan to use to understand what information is collected, how it is used, and whether you can opt out of data storage.

Cheating and overreliance: Excessive dependence on AI tools can undermine critical thinking and genuine learning. For instance, students might be tempted to use GenAI to complete essays or assignments instead of engaging with the material themselves. Educators should design strategies that encourage independent thinking while integrating AI responsibly.

Developing an effective AI strategy in education means choosing tools that align with your system’s goals and selecting use cases that teachers can realistically implement.

Popular GenAI Text Generation Tools

- *ChatGPT (OpenAI):* One of the first widely adopted GenAI tools, known for its versatility and strong language capabilities.
- *Bard (Google):* Similar to ChatGPT, but often described as having a more casual tone and a user-friendly interface.
- *Bing Chat (Microsoft):* Built into the Bing search engine and powered by OpenAI technology, combining conversational responses with web search.
- *Claude (Anthropic):* Designed to handle larger input and output capacities, making it well-suited for long-form text generation.

Since new GenAI tools are being developed and updated regularly, educators should test the usability and quality of each tool while also considering privacy and ethical policies before adoption.

Writing Effective Prompts (AI “Hints”) for Teachers

To get the most useful results from text generation tools, prompts should be structured to include six elements:

1. *Role of the tool* – Define the perspective or expertise you want the AI to adopt.
2. *Description of your project* – Clarify the overall task or assignment.
3. *Project context* – Provide relevant background or audience information.
4. *Output characteristics* – Specify the format, length, or style of the output.
5. *Rules and limitations* – Set boundaries for what should or should not be included.
6. *Examples of output* – Offer models or formats that the AI can emulate.

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AI-powered tools make personalized learning possible by adapting content and pace to the needs of individual students. Intelligent tutoring systems, automated grading, and virtual assistants not only improve teaching efficiency but also enhance student engagement.

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