

ai and language learning

AI and Language Learning: A Comprehensive Guide

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Summary: This guide explores the transformative potential of AI in language learning, outlining best practices and common pitfalls. We delve into various AI-powered tools, discussing their effectiveness and limitations. The guide emphasizes the importance of a balanced approach, integrating AI strategically to enhance, not replace, human interaction and personalized learning strategies. We also address ethical considerations and the future of AI in language acquisition.

Keywords: AI and language learning, AI language learning apps, AI tutors, language learning technology, personalized language learning, AI in education, benefits of AI in language learning, challenges of AI in language learning, future of AI in language learning, ethical considerations of AI in language learning.

1. Introduction: The Rise of AI in Language Learning

The field of language learning is undergoing a revolution, driven by the rapid advancement of artificial intelligence (AI). AI and language learning are becoming increasingly intertwined, offering learners unprecedented opportunities for personalized, efficient, and engaging language acquisition. From AI-powered language learning apps to intelligent tutoring systems, AI is transforming how we approach language learning. However, understanding both the benefits and limitations of these technologies is crucial for effective implementation. This guide provides a comprehensive overview of AI and language learning, offering best practices and highlighting potential pitfalls.

2. AI-Powered Tools for Language Learning: A Diverse Landscape

The AI landscape for language learners is vast and varied. We can categorize these tools broadly:

AI-powered language learning apps: Duolingo, Babbel, and Rosetta Stone incorporate AI for personalized learning paths, adaptive exercises, and speech recognition. These apps leverage AI to track learner progress, identify areas of weakness, and adjust difficulty accordingly. However, they often lack the nuanced feedback of a human tutor.

Chatbots and conversational AI: These tools allow learners to practice conversation in a low-pressure environment. AI chatbots can provide immediate feedback on grammar and pronunciation, simulating real-life interactions. However, their ability to understand context and nuanced language remains a challenge.

AI-powered writing assistants: Grammarly and ProWritingAid utilize AI to detect grammatical errors, suggest improvements in style and tone, and even offer vocabulary suggestions. This can be particularly beneficial for learners focusing on writing proficiency.

AI-driven pronunciation assessment tools: These tools utilize speech recognition and natural language processing to analyze learner pronunciation and provide feedback. They can be effective in identifying areas needing improvement but may not capture the subtleties of pronunciation.

Intelligent tutoring systems (ITS): These systems offer more personalized and adaptive learning experiences compared to traditional apps. They can track learner progress, adjust the curriculum based on individual needs, and provide targeted feedback.

3. Best Practices for Utilizing AI in Language Learning

To maximize the effectiveness of AI in language learning, consider these best practices:

Combine AI tools with human interaction: AI tools should supplement, not replace, human interaction. A balanced approach, combining AI-powered resources with interaction with human teachers or language partners, is crucial for holistic language development.

Set realistic expectations: AI tools are not a magic bullet. They require effort and dedication from the learner. Success relies on consistent practice and active engagement with the learning materials.

Choose the right tools: Select AI tools that align with your learning style, goals, and proficiency level. Consider factors such as the tool's features, interface, and level of personalization.

Monitor your progress and adapt: Regularly track your progress and adjust your learning strategy accordingly. If a particular AI tool is not effective, don't hesitate to switch to another one.

Focus on communication and fluency: While grammar and vocabulary are important, AI should also support the development of communicative competence and fluency. Seek opportunities to practice speaking and listening with native speakers.

4. Common Pitfalls to Avoid

While AI offers significant benefits, it's essential to be aware of potential pitfalls:

Over-reliance on technology: Don't solely rely on AI tools for language acquisition. Human interaction, immersion, and cultural understanding remain crucial aspects of language learning.

Lack of personalized feedback: While AI can provide feedback, it may not always be tailored to individual needs. Human teachers can provide more nuanced and personalized feedback.

Data privacy concerns: Be mindful of the data collected by AI tools and ensure the tools you use adhere to privacy regulations.

Bias in algorithms: AI algorithms can reflect biases present in the data they are trained on. Be aware of potential biases and critically evaluate the information provided by AI tools.

Limited contextual understanding: AI may struggle to understand context and nuances in language, potentially leading to inaccurate feedback or interpretations.

5. The Future of AI and Language Learning

The future of AI and language learning is bright. We can expect further advancements in areas such as:

More sophisticated personalized learning: AI will become increasingly adept at tailoring learning experiences to individual learner needs and preferences.

Improved natural language processing: AI will better understand the nuances of human language, leading to more accurate feedback and more engaging interactions.

Enhanced virtual and augmented reality experiences: Immersive technologies will create more engaging and realistic language learning environments.

Integration with other educational technologies: AI will be integrated with other educational technologies, such as learning management systems and virtual classrooms, to create more comprehensive learning ecosystems.

6. Ethical Considerations

The use of AI in language learning raises several ethical considerations, including data privacy, algorithmic bias, and the potential for widening educational inequalities. Responsible development and implementation of AI tools require careful consideration of these ethical implications.

7. Conclusion

AI is transforming the landscape of language learning, offering exciting possibilities for personalized, efficient, and engaging language acquisition. However, a balanced approach, combining the strengths of AI tools with human interaction and personalized learning strategies, is essential for maximizing its benefits. By understanding both the potential and limitations of AI in language learning, we can harness its power to create more effective and equitable learning experiences for all.

FAQs

1. Is AI replacing human language teachers? No, AI tools are designed to supplement, not replace, human teachers. Human interaction remains crucial for nuanced feedback and holistic

language development.

1. Are AI language learning apps effective? Their effectiveness depends on individual learning styles and consistent use. They are most beneficial when combined with other learning methods.
1. What are the best AI-powered language learning apps? Popular options include Duolingo, Babbel, Rosetta Stone, and Memrise, each with its own strengths and weaknesses.
1. How can I protect my data privacy when using AI language learning tools? Read the privacy policies carefully, choose reputable providers, and limit the personal information you share.
1. Can AI help with pronunciation? Yes, AI-powered tools can analyze pronunciation and provide feedback, but they may not capture all the nuances of spoken language.
1. Is AI suitable for all language learning levels? Yes, AI tools are available for various proficiency levels, from beginners to advanced learners.
1. What are the costs associated with AI language learning tools? Costs vary depending on the tool and subscription model, ranging from free to premium subscriptions.
1. How can I integrate AI tools into my existing language learning routine? Start by identifying your weaknesses and choosing tools that address those areas. Integrate them gradually into your existing study plan.
1. What is the future of AI in language learning? We can expect more personalized learning experiences, improved natural language processing, and integration with other educational technologies.

Related Articles:

1. "The Impact of AI on Language Acquisition: A Meta-Analysis": This article presents a comprehensive review of existing research on the effectiveness of AI in language learning, providing quantitative data on its impact.
1. "Designing Effective AI-Powered Language Learning Apps: A Case Study": This case study examines the development and implementation of a specific AI-powered language learning app, highlighting design choices and their impact on learner engagement.
1. "Ethical Considerations in the Development and Use of AI in Education": This article explores the broader ethical implications of using AI in education, including issues of bias, data privacy, and accessibility.
1. "AI and Personalized Learning: A New Paradigm for Language Education": This article focuses on the potential of AI to create highly personalized language learning experiences, tailored to individual learner needs and preferences.
1. "The Role of Human Interaction in AI-Enhanced Language Learning": This article emphasizes the importance of maintaining human interaction alongside AI tools, arguing that a blended approach is optimal for language acquisition.
1. "AI-Powered Chatbots for Language Practice: Effectiveness and Limitations": This article critically evaluates the use of AI chatbots for language practice, analyzing their strengths and weaknesses in promoting conversational fluency.
1. "Assessing Pronunciation with AI: A Comparison of Different Techniques": This article compares various AI-powered pronunciation assessment techniques, discussing their accuracy, efficiency, and limitations.
1. "AI and the Future of Language Testing: Opportunities and Challenges": This piece discusses

how AI is changing how language proficiency is assessed, looking at both the opportunities and potential pitfalls.

1. "Addressing Algorithmic Bias in AI-Powered Language Learning Tools": This article explores the issue of bias in AI algorithms and suggests strategies for mitigating these biases in language learning applications.

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among educators and researchers, promoting a transformative and collaborative learning experience for students worldwide.

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brings together instances of research in second language acquisition, language awareness, computer assisted language learning, artificial intelligence and natural language processing. It is intended for language teachers, students of applied linguistics and language engineering as well as for applied linguists in general.--BOOK JACKET.

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pedagogy, and face-to-face interactions have always been considered to be the central elements in bringing about successful learning outcomes. Today, the traditional classroom is on the verge of a radical transformation, triggered especially by AI systems such as chatbots. Some initial work in using deep learning AI systems, which have the ability to interact with students and teachers in tandem, is showing how classroom-teaching can be enhanced with an algorithmic tutor. This book provides an overview of what the research says and what prospects AI bears for foreign language teaching at present and in the future. It will delineate concrete ideas that can potentially make the learning and teaching of languages relevant to the techno-savvy student, without compromising the role of the human teacher--

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media artifacts from trusted sources will help make your learning experience more dynamic while also providing additional resources to use in your classroom. This book:

- Offers a unique approach to the topic, with chapter opening scenes, case studies, and featured student voices.
- Discusses a variety of ways to teach students about AI, through design thinking, project-based learning and STEM connections.
- Includes lesson ideas, activities and tools for exploring AI with your students.
- Includes references to films and other media you can use in class to start discussions on AI or inspire design thinking and STEM projects.

In *Teaching AI*, you'll learn what AI is, how it works and how to use it to better prepare students in a world with increased human-computer interaction.

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innovative teaching and learning. Research into artificial intelligence and machine learning in education goes back to the late 1970s. Artificial intelligence methods were generally employed in two ways: to design and facilitate interactive learning environments that would support learning by doing, and to design and implement tutoring systems by adapting instructions with respect to the students' knowledge state. But this is just the beginning. As *Artificial Intelligence in Education* shows, AI is increasingly used in education and learning contexts. The collision of three areas - data, computation and education - is set to have far-reaching consequences, raising fundamental questions about the nature of education: what is taught and how it is taught. *Artificial Intelligence in Education* is an important, if at times disturbing, contribution to the debate on AI and provides a detailed analysis on how it may affect the way teachers and students engage in education. The book describes how artificial intelligence may impact on curriculum design, on the individualisation of learning, and on assessment, offering some tantalising glimpses into the future (the end of exams, your very own lifelong learning companion) while not falling victim to tech-hype. The enormous ethical, technical and pedagogical challenges ahead are spelt out, and there is a real risk that the rapid advances in artificial intelligence products and services will outstrip education systems' capacity to understand, manage and integrate them appropriately. As the book concludes: We can either leave it to others (the computer scientists, AI engineers and big tech companies) to decide how artificial intelligence in education unfolds, or we can engage in productive dialogue. I commend this book to anyone concerned with the future of education in a digital world. --Marc Durando, Executive Director, European Schoolnet

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relations, and values. The content within this publication covers such topics as AI and tutoring, role of teachers, physical education and sports, interactive E-learning and virtual laboratories, adaptive curricula development, support critical thinking, and augmented intelligence and it is designed for educators, curriculum developers, instructional designers, educational software developers, education consultants, academicians, administrators, researchers, and professionals.

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ai and language learning: *Integrating Artificial Intelligence in Education: Enhancing Teaching Practices for Future Learning* Queirós, Ricardo, Cruz, Mário, Mascarenhas, Daniela, 2024-10-25 The education sector faces unprecedented challenges, from rapidly evolving technologies to diverse learner needs, placing immense pressure on educators to adapt and innovate. Traditional teaching methods need help to keep pace with the demands of modern education, leading to gaps in personalized learning and student engagement. Ethical concerns surrounding AI integration in education remain a significant hurdle, requiring careful navigation and responsible implementation. *Integrating Artificial Intelligence in Education: Enhancing Teaching Practices for Future Learning* offers a comprehensive solution by exploring how AI can address these challenges and revolutionize education. Through a collection of insightful contributions, it provides practical strategies for integrating AI into teaching practices, empowering educators to personalize learning experiences and enhance student engagement. By examining AI ethics and responsible education, the book equips educators with the knowledge needed to navigate the ethical complexities of AI integration.

ai and language learning: *Technologies, Artificial Intelligence and the Future of Learning Post-COVID-19* Allam Hamdan, Aboul Ella Hassanien, Timothy Mescon, Bahaaeddin Alareeni, 2022-02-17 This book aims to assess the experience of education during COVID-19 pandemic and explore the future of application of technologies and artificial intelligence in education. Education delivery requires the support of new technologies such as artificial intelligence (AI), the Internet of Things (IoT), big data, and machine learning to fight and aspire to new diseases. The academic community and those interested in education agree that education after the corona pandemic will not be the same as before. The book also questions the role of accreditation bodies (e.g., AACSB, etc.) to ensure the effectiveness and efficiency of technology tools in achieving distinguished education in times of crisis.

ai and language learning: *The Distributed Classroom* David A. Joyner, Charles Isbell, 2021-09-14 A vision of the future of education in which the classroom experience is distributed across space and time without compromising learning. What if there were a model for learning in which the classroom experience was distributed across space and time--and students could still have the benefits of the traditional classroom, even if they can't be present physically or learn synchronously? In this book, two experts in online learning envision a future in which education from kindergarten through graduate school need not be tethered to a single physical classroom. The distributed classroom would neither sacrifice students' social learning experience nor require massive development resources. It goes beyond hybrid learning, so ubiquitous during the COVID-19 pandemic, and MOOCs, so trendy a few years ago, to reimagine the classroom itself. David Joyner and Charles Isbell, both of Georgia Tech, explain how recent developments, including distance learning and learning management systems, have paved the way for the distributed classroom. They propose that we dispense with the dichotomy between online and traditional education, and the assumption that online learning is necessarily inferior. They describe the distributed classroom's

various delivery modes for in-person students, remote synchronous students, and remote asynchronous students; the goal would be a symmetry of experiences, with both students and teachers able to move from one mode to another. With *The Distributed Classroom*, Joyner and Isbell offer an optimistic, learner-centric view of the future of education, in which every person on earth is turned into a potential learner as barriers of cost, geography, and synchronicity disappear.

ai and language learning: *The Intelligence Revolution* Bernard Marr, 2020 Harness the transformative power of artificial intelligence and integrate it in your business strategy to deliver intelligent products, services and business processes that put you above the rest.

ai and language learning: *The Keys to Planning for Learning* Donna Clementi, Laura Terrill, 2017 An effective curriculum must bring all required elements together creating an articulated scope and sequence that allows learners to advance to the highest possible levels of proficiency given the type of program. The documents need to be written in a format that is easily understood and accessible to teachers. Enduring understandings offer a starting point for curriculum development. Language educators and experts Donna Clementi and Laura Terrill have created a useful guide to assist teachers, curriculum designers, administrators and professional developers in designing Standards- and performance-based curricula. Starting with an understanding of the 21st century learner, the authors establish a mindset for creating curriculum based on developing learners' proficiency in language and culture. The authors provide easy-to-follow templates to develop units of instruction and daily lessons that incorporate the Standards for Learning Languages, Common Core State Standards, 21st century skills, and technology integration

ai and language learning: *Contextual Language Learning* Yu-Ju Lan, Scott Grant, 2021-08-31 This book presents research and developments in the virtual, augmented technology and mixed-reality used in language learning and teaching. It provides the readers with a comprehensive overview of contextual language learning with the support of immersive technology. From theoretical foundations, methodological issues, the features of virtual and augmented reality, and educational practices of language learning, to the future of immersive technology for and research on language learning. During the past two decades, abundant research on different realities has recognized the potential of language learning in virtual, augmented, and mixed-reality environments (Wang et al., 2020; Lin & Lan, 2015). Given insufficient studies of Chinese learning in immersive contexts reported in existing literature, this book includes several excellent studies about using immersive technologies for Chinese learning in addition to other foreign language learning, such as English as a foreign language (EFL). Since learning Chinese has grown significantly as a global trend, the authors vitally consolidate and synthesize various theoretical foundations, visions, and recent research and practices in the context of Chinese teaching from broader and more diverse perspectives. On the other hand, the chapters about EFL learning also shed light on the research on contextual language learning. Thus, the chapters included in this book will likely provide readers with a deep and extensive understanding of the potential of the smart combination of immersive technologies and language learning. More issues for future research will undoubtedly be inspired by reading the chapters in this book.

ai and language learning: *Learning Deep Architectures for AI* Yoshua Bengio, 2009 Theoretical results suggest that in order to learn the kind of complicated functions that can represent high-level abstractions (e.g. in vision, language, and other AI-level tasks), one may need deep architectures. Deep architectures are composed of multiple levels of non-linear operations, such as in neural nets with many hidden layers or in complicated propositional formulae re-using many sub-formulae. Searching the parameter space of deep architectures is a difficult task, but learning algorithms such as those for Deep Belief Networks have recently been proposed to tackle this problem with notable success, beating the state-of-the-art in certain areas. This paper discusses the motivations and principles regarding learning algorithms for deep architectures, in particular those exploiting as building blocks unsupervised learning of single-layer models such as Restricted Boltzmann Machines, used to construct deeper models such as Deep Belief Networks.

ai and language learning: Digital Pedagogies and the Transformation of Language

Education Montebello, Matthew, 2021-05-14 Education has undergone numerous radical changes as the digital era has transformed the way we as humans communicate, inform ourselves, purchase goods, and perform other mundane chores at home and at work. Social media is one of those phenomena that has affected not only society at large but has heavily influenced educational processes around the world. The demand for and availability of networked educational services have also increased, enabling online education to gain popularity and become an internationally accessible option. Furthermore, universities and other private higher educational institutions embrace digital technology and have adopted the new learning medium as they realize the prospects of having the world's population as a potential source of revenue. A related phenomenon has been the proliferation of massive open online courses (MOOCs). These have changed the ways in which learners interact with educational institutions, professors, and with each other. At the same time, the upsurge in digital education has raised issues with language as online learners from all over the world and from a plethora of cultures and foreign languages have found themselves challenged to take full advantage and optimally benefit from the same educational media and resources that English-speaking counterparts have tapped into. Digital Pedagogies and the Transformation of Language Education will answer questions of how to optimize language learning in such a defining new era and what the educational, sociological, and technological dimensions of radical change are. The book will explore the different challenges and the multitude of opportunities that new and transformative pedagogies have enabled. Beyond teaching/learning practices being presented, this book also focuses on how learners will adjust to the technology and the readiness of practitioners to psychologically adjust to the changing and demanding media technology has unleashed. The chapters provide international experiences and perspectives on the impact of e-educational technologies on student experience, success, learning, and comprehension in the realm of language learning specifically. This book is essential for educational technologists, online instructional designers, education policymakers and administrators, curriculum developers, practitioners, stakeholders, researchers, academicians, and students who are interested in digital language pedagogies.

ai and language learning: Fluent in 3 Months Benny Lewis, 2014-03-11 Benny Lewis, who speaks over ten languages—all self-taught—runs the largest language-learning blog in the world, Fluent In 3 Months. Lewis is a full-time language hacker, someone who devotes all of his time to finding better, faster, and more efficient ways to learn languages. Fluent in 3 Months: How Anyone at Any Age Can Learn to Speak Any Language from Anywhere in the World is a new blueprint for fast language learning. Lewis argues that you don't need a great memory or the language gene to learn a language quickly, and debunks a number of long-held beliefs, such as adults not being as good of language learners as children.

ai and language learning: Artificial Intelligence with Python Prateek Joshi, 2017-01-27 Build real-world Artificial Intelligence applications with Python to intelligently interact with the world around you About This Book Step into the amazing world of intelligent apps using this comprehensive guide Enter the world of Artificial Intelligence, explore it, and create your own applications Work through simple yet insightful examples that will get you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real-world Artificial Intelligence applications. This book is friendly to Python beginners, but being familiar with Python would be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. What You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent recommender system Understand logic programming and how to use it Build automatic speech recognition systems Understand the basics of heuristic search and genetic programming Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is

becoming increasingly relevant in the modern world where everything is driven by technology and data. It is used extensively across many fields such as search engines, image recognition, robotics, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about various algorithms that can be used to build Artificial Intelligence applications. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. Starting from the basics of Artificial Intelligence, you will learn how to develop various building blocks using different data mining techniques. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to any application that's based on images, text, stock market, or some other form of data, this exciting book on Artificial Intelligence will definitely be your guide! Style and approach This highly practical book will show you how to implement Artificial Intelligence. The book provides multiple examples enabling you to create smart applications to meet the needs of your organization. In every chapter, we explain an algorithm, implement it, and then build a smart application.

ai and language learning: *ChatGPT for Language Teachers: Revolutionizing Language Learning* Jade Summers, Unlock the full potential of language learning with ChatGPT for Language Teachers: Revolutionizing Language Learning, an indispensable guide for language educators looking to leverage the power of AI in their classrooms. This book serves as a comprehensive resource for teachers who aspire to make language learning more dynamic, interactive, and effective. Explore how ChatGPT, an advanced AI language model by OpenAI, can be utilized to create diverse, engaging, and personalized language learning experiences. From automating routine tasks to facilitating complex language interactions, this book covers practical applications and innovative strategies to enhance language teaching. Whether you teach English, Spanish, French, or any other language, ChatGPT for Language Teachers provides insights into how AI can transform traditional language education methods, making them more aligned with the needs of modern learners.

ai and language learning: *Language Play, Language Learning* Guy Cook, 2000-02-03 This book has two related purposes. The first is to demonstrate the extent and importance of language play in human life; the second is to draw out the implications for applied linguistics and language teaching. Language play should not be thought of as a trivial or peripheral activity, but as central to human thought and culture, to learning, creativity, and intellectual enquiry. It fulfils a major function of language, underpinning the human capacity to adapt: as individuals, as societies, and as a species.

ai and language learning: *Introduction to Machine Learning* Shan-e-Fatima, 2023-09-25 With the use of machine learning (ML), which is a form of artificial intelligence (AI), software programmers may predict outcomes more accurately without having to be explicitly instructed to do so. In order to forecast new output values, machine learning algorithms use historical data as input. Machine learning is frequently used in recommendation engines. Business process automation (BPA), predictive maintenance, spam filtering, malware threat detection, and fraud detection are a few additional common uses. Machine learning is significant because it aids in the development of new goods and provides businesses with a picture of trends in consumer behavior and operational business patterns. For many businesses, machine learning has emerged as a key competitive differentiation. The fundamental methods of machine learning are covered in the current book.

ai and language learning: *Fostering Communication and Learning With Underutilized Technologies in Higher Education* Ali, Mohammed Banu, Wood-Harper, Trevor, 2020-09-04 Higher education is undergoing radical changes with the arrival of emerging technology that can facilitate better teaching and learning experiences. However, with a lack of technical awareness, technophobia, and security and trust issues, there are several barriers to the uptake of emerging technologies. As a result, many of these new technologies have been overlooked or underutilized. In the information systems and higher education domains, there exists a need to explore underutilized technologies in higher education that can foster communication and learning. Fostering

Communication and Learning With Underutilized Technologies in Higher Education is a critical reference source that provides contemporary theories in the area of technology-driven communication and learning in higher education. The book offers new knowledge about educational technologies and explores such themes as artificial intelligence, digital learning platforms, gamification tools, and interactive exhibits. The target audience includes researchers, academicians, practitioners, and students who are working or have a keen interest in information systems, learning technologies, and technology-led teaching and learning. Moreover, the book provides an understanding and support to higher education practitioners, faculty, educational board members, technology vendors and firms, and the Ministry of Education.

Additional Resources

OpenAI

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What is AI - DeepAI

What is AI, and how does it enable machines to perform tasks requiring human intelligence, like speech recognition and decision-making? AI learns and adapts through new data, integrating ...

Artificial intelligence - Wikipedia

Artificial intelligence (AI) is the capability of computational systems to perform tasks typically associated with human intelligence, such as learning, reasoning, problem-solving, perception, ...

ISO - What is artificial intelligence (AI)?

AI spans a wide spectrum of capabilities, but essentially, it falls into two broad categories: weak AI and strong AI. Weak AI, often referred to as artificial narrow intelligence (ANI) or narrow AI, ...

Artificial intelligence (AI) | Definition, Examples, Types ...

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What Is Artificial Intelligence? Definition, Uses, and Types

May 23, 2025 · Artificial intelligence (AI) is the theory and development of computer systems capable of performing tasks that historically required human intelligence, such as recognizing ...

What is artificial intelligence (AI)? - IBM

Artificial intelligence (AI) is technology that enables computers and machines to simulate human learning, comprehension, problem solving, decision-making, creativity and autonomy.

What is Artificial Intelligence (AI)? - GeeksforGeeks

Apr 22, 2025 · Narrow AI (Weak AI): This type of AI is designed to perform a specific task or a narrow set of tasks, such as voice assistants or recommendation systems. It excels in one ...

Machine learning and generative AI: What are they good for in ...

Jun 2, 2025 · What is generative AI? Generative AI is a newer type of machine learning that can

create new content — including text, images, or videos — based on large datasets. Large ...

AI and AI-powered tools for pronunciation training - Sciendo

AI and AI-powered tools present the latest technological advancements in language teaching. As a part of computer science, AI is based on a set of technologies, methods and approaches ...

Reconceptualizing Self-Directed Learning in the Era of ...

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STUDENT PERCEPTIONS OF AI-POWERED WRITING ...

In the field of academic writing and language learning, students' writing habits are changing due to the rise of new technologies and the Internet (Moore et al., 2016; Peters & Cadieux, 2019). ...

Incorporating AI Tools into Comprehensive Language ...

learning. Traditional language teaching methods often use a one-size-fits-all approach, which may lack engagement and fail to meet individual learning needs. This study focused on how AI ...

The effects of AI-guided individualized language learning: A ...

utilization of AI-guided language learning and collected 61 samples (N = 8,282) from 17 research projects (e.g., Assessment to Instruction [A2i], Duolingo, and Project LISTEN). The results of ...

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to any of the components shown in the figure might count as learning. Different learning mechanisms might be employed depending on which subsystem is being changed. We will ...

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Jan 24, 2025 · with AI-assisted language learning in a supportive setting. Gamage et al. (2023) highlight how using AI applications supports students by analyzing their performance data, ...

Exploring the Implications of ChatGPT for Language ...

2.2 Importance of language learning in higher education In today's interconnected society, the importance of multilingualism for personal and professional success cannot be overstated ...

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language learning outcomes and perceptions among EFL learners. For instance, Xu et al. (2022) found that AI-assisted language learning tools using speech recognition features improved ...

Artificial intelligence in foreign language learning: A ...

For example, AI language learning tools have notable limitations such as the need for human interaction, difficulties in recreating cultural and contextual language subtleties, students' ...

Trends, Research Issues and Applications of Artificial

the trends, research issues, and applications of AI in language learning remain largely under-investigated. Accordingly, the present paper, using bibliometric analysis, investigates these ...

Enhancing English Language Education: The Impact Of AI

benefits of technological innovations in language learning. Enhanced Engagement and Interactivity:
One of the key advantages of AI-driven language learning platforms is their ability ...

Emerging spaces for language learning: AI bots, ambient ...

Emerging spaces for language learning: AI bots, ambient intelligence, and the metaverse Robert
Godwin-Jones, Virginia Commonwealth University Abstract Looking at human communication ...

ARTIFICIAL INTELLIGENCE IN ENGLISH LANGUAGE ...

Language learning supported by smart devices “has the characteris- tics of mobility, efficiency,
universality, interaction, sharing, and individuality” (G. Ma, 2021, p. 675). The emergence of ...

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This study hypothesized that AI language learning tools provided personalized learning experiences
which were adapted to the unique needs of individual users, resulting in improved ...

Knowledge Management and Artificial Intelligence - United ...

Machine Learning is a subset of AI that focuses on the development of algorithms and statistical ...
language processing, and generative modeling. These systems can learn from experience, ...

Exploring the Application of Artificial Intelligence in Foreign ...

and make use of AI technology to enhance language learning outcomes while ensuring the proper
balance between AI and human teaching methods[3]. The future development trends of AI in ...

Journal of University Teaching & Learning Practice - ed

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writing in a post-pandemic world Article 07 2023 . Academic Integrity Academic Integrity ...

Evolving technologies for language learning - Godwin-Jones

Language Learning & Technology ISSN 1094-3501 October 2021, Volume 25, Issue 3 pp. 6-26
EMERGING TECHNOLOGIES Evolving technologies for language learning Robert Godwin ...

Enhancing Language Acquisition: The Role of AI in ...

The synergy of AI with language learning is posited as a paradigm shift, offering new perspectives
and approaches in the educational sphere. Keywords: AI in education, language learning, ...

Artificial Intelligence (AI) in Language Learning Autonomy ...

technology in education, language learning and enabling autonomy in language learning; it has
become essential to study collectively the role AI based applications play in enabling ...

Artificial intelligence and English language teaching: ...

English language teachers report already using AI-powered tools for a range of tasks (76 per cent of
teachers from our global survey). Language learning apps, language generation AI and ...

Integrating Artificial Intelligence (AI) in Language Teaching ...

Jun 18, 2024 · advancements in NLP, machine learning, and other AI techniques, many AI-powered
tools and applications have become available to language educators (Levy & ...

Perceptions and Extent of Utilization of Generative Artificial ...

2.2. Use of AI Writing Assistants in Academic Contexts Globally AI has already made its way into
education, proving helpful when paired with high-quality learning materials (Lee et al., 2020). ...

Impact of Artificial Intelligence Versus Traditional Instruction ...

a. Evaluate the efficiency of AI-based language learning tools in terms of the improvement of language competency. b. Consider how AI's individualised education and adaptive learning ...

Partnering with AI: Intelligent writing assistance and ...

6 Language Learning & Technology and therefore also advances in natural language understanding, the ability of AI systems to extract meaning from texts. While digital writing ...

AI Teaching Tools for Languages: Revolutionizing Education ...

language learning experience by utilizing AI technologies like machine learning, natural language processing, and deep learning. These are a few of the most popular AI-based language ...

Artificial intelligence and English language teaching: ...

generative AI tools like ChatGPT, we have seen many successful applications developed using AI to create adaptive learning pathways for language learners. Generative AI tools now provide ...

CHATGPT IN ENGLISH AS A SECOND LANGUAGE ...

advancements leading to the expansion of AI Language Learning (AILL) as an entirely new field in L2 learning (Alharbi & Khalil, 2023). Artificial Intelligence (AI) application in language education ...

Measurement of Attitude in Language Learning with AI ...

With the continuous improvement of AI in language learning, it becomes compulsory to stipulate AI in curriculum and syllabus (Somasundaram, Palani & Pandian, 2020). Also, students that ...

Faculty of Humanities, Social Sciences and Education

Significance: the study adds to the existing data about the integration of AI into language learning specially for writing skills and contributes to the ongoing discussion on the role of technology in ...

The Role of Artificial Intelligence in Personalized Learning

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Artificial Intelligence and the Future of Teaching and Learning

2 represent others' work as their own. They are well-aware of "teachable moments" and pedagogical strategies that a human teacher can address but are undetected or ...

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type of chatbots, especially those developed for educational purposes including language learning, as well as to identify their advantages/disadvantages in language teaching and ...

Preparing teachers for the application of AI-powered

3 AI in foreign language education The meaning of AI-powered education has been rapidly growing in all areas of educational content; however, this paper focuses solely on the ...

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The utilization of AI has the potential to revolutionize the process of language learning for children by providing an interactive and personalized learning experience. AI-powered language ...

Use of AI in a World Language Classroom - Scientific ...

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An Evaluation of Khanmigo, a Generative AI Tool, as a ...

growing popularity. However, the potential of Gen AI as a language learning tool remains largely unexplored. With due consideration, this paper endeavors to gauge the potential of a recently ...

Modeling English teachers' behavioral intention to use ...

adapting to AI and making full use of AI to improve teaching. The effort needed for AI-supported language learning to emerge involves teachers' acceptance and creative lesson designs ...

PROBING SENIOR HIGH SCHOOL STUDENTS' ...

Consequently, AI tools emerged as powerful assets in advancing students' language learning. AI in Language Learning AI tools in language learning became increasingly popular due to their ...

Artificial Intelligence In Language Teaching And Learning

Artificial intelligence (AI)-based mobile learning in ELT for EFL learners: The implementation and learners' attitudes . pág. 5633 ... that play an essential role in English language teaching and ...

The Role Of Artificial Intelligence (AI) In Developing English ...

The integration of AI in language learning environments offers numerous possibilities for fostering the four fundamental language skills: speaking, listening, reading, and writing. AI-powered ...

Lecture #25: Artificial Intelligence and Machine Learning

The Positives of AI - AI systems can be helpful - Digital Personal Assistants facilitate a number of every day tasks - Spam filters reduce the number of successful phishing attacks - Machine ...

Investigating the integration of artificial intelligence in English ...

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Systematic Review for AI-based Language Learning Tools

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A Study on Using AI in Promoting English Language ...

The AI language learning platform can grade examinations and even analyse compositions after they've been submitted, high-lighting errors and suggesting ways to avoid them in the future. ...

Artificial Intelligence in Foreign Language Learning and ...

AI key concepts in terms of AI-powered language learning: 1. Natural Language Processing (NLP) is an area that combines AI and linguistics in general and is concerned with the automated ...

AI Language Models as Educational Allies: Enhancing ...

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