

# Ethical Use of AI in Language Teaching and Learning

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**Abstract**—Artificial Intelligence (AI) has rapidly become an influential component of modern language teaching and learning. It is an ability to personalize content, provide instant feedback, and support diverse learning needs that makes it a transformative educational tool. As AI becomes increasingly embedded in classrooms through language-learning apps, automated writing evaluators, conversational agents, and personalized learning systems, questions of ethics, responsibility, and accountability gain critical importance.

However, the integration of AI also raises important ethical concerns that educators, institutions, and learners must address responsibly. This research paper examines the ethical use of AI in language education, focusing on core principles such as transparency, data privacy, fairness, academic integrity, and teacher-student agency. It discusses the benefits of ethical AI use, highlights the potential risks of misuse, and proposes a practical framework for responsible integration. Using a descriptive research approach, the study emphasizes that ethical AI adoption not only improves learning outcomes but also promotes trust, equity, and long-term sustainability in language education. This paper argues that effective and responsible implementation of AI requires transparent policies, proper teacher training, informed student consent, and ongoing monitoring of AI-generated content and data practices. The research emphasizes that ethical AI use is not a technological issue alone but a pedagogical, psychological, and socio-cultural one that demands holistic awareness from educators, learners, and institutions. The study concludes with recommendations for building ethical AI policies that protect learner rights and support a balanced, human-centered approach to language education.

**Index Terms**—Artificial Intelligence, Language Pedagogy, Ethical AI and Academic Integrity

## I. INTRODUCTION

AI has entered schools, colleges, and universities as a powerful tool for language education. It supports grammar correction, translation, pronunciation

training, reading comprehension, and writing development. Apps like Duolingo, Grammarly, Google Translate, and ChatGPT offer real-time assistance, making language learning faster and more accessible.

However, this technological shift also brings ethical challenges. Educators must ask:

- How much should students rely on AI?
- Does AI promote learning or encourage over-dependence?
- Who controls the data collected from learners?
- Is AI always accurate and unbiased?

The rapid advancement of Artificial Intelligence (AI) has significantly reshaped educational practices, particularly in the field of language teaching and learning. AI-powered tools such as ChatGPT, Grammarly, Google Translate, and intelligent tutoring systems offer instant feedback, adaptive learning experiences, and increased learner engagement. These tools have become widely accessible, especially in higher education, making language learning more flexible and learner-centered. However, the increasing reliance on AI has also generated ethical dilemmas. Issues such as plagiarism, academic dishonesty, data privacy, bias, and the diminishing role of human creativity pose serious challenges to educators. Ethical use of AI, therefore, has become a critical concern in contemporary language education. This study seeks to explore how learners perceive and use AI tools and how ethical considerations shape their attitudes toward AI-assisted language learning. This paper explores these questions and provides a framework for using AI responsibly. The present research paper is a theory-based, descriptive, and conceptual discussion of ethical issues surrounding the use of artificial intelligence in language teaching and learning, without employing empirical data or systematic review methods.

## II. THEORETICAL FRAMEWORK

The present study is grounded in a theoretical framework that draws upon established ethical theories, educational philosophies, and human-centred approaches to technology. This framework provides a conceptual lens through which the ethical use of Artificial Intelligence (AI) in language teaching and learning can be understood and evaluated. Rather than measuring outcomes, the framework explains how ethical reasoning informs responsible AI integration in educational contexts.

## III. ETHICAL THEORIES RELEVANT TO AI USE IN LANGUAGE EDUCATION

Ethical theories offer foundational principles for evaluating the moral implications of AI use in language learning environments. Three major ethical perspectives, deontological ethics, utilitarian ethics, and virtue ethics, are particularly relevant to AI assisted education.

Deontological ethics emphasizes duty, rules, and moral obligations. From this perspective, ethical AI use in language teaching requires honesty, transparency, and respect for academic integrity. Learners have a moral duty to submit original work, while teachers and institutions have an ethical responsibility to clearly define acceptable AI use. Practices such as undisclosed AI generated assignments violate deontological principles by undermining honesty and fairness.

Utilitarian ethics, which focuses on maximizing overall benefit and minimizing harm, evaluates AI use based on its educational outcomes. AI tools may be considered ethical if they enhance learning efficiency, accessibility, and inclusion. However, when AI use leads to dependency, misinformation, or erosion of critical thinking skills, the potential harm outweighs the benefits. Thus, utilitarian ethics supports controlled and pedagogically guided AI integration.

Virtue ethics emphasizes moral character and personal responsibility. In language learning, this perspective highlights values such as integrity, originality, effort, and intellectual honesty. Ethical AI use, therefore, depends not only on rules but also on the learner's commitment to responsible and reflective learning practices.

Together, these ethical theories provide a normative foundation for understanding moral responsibility in AI assisted language education.

## IV. CONSTRUCTIVIST LEARNING THEORY AND AI INTEGRATION

Constructivist learning theory views language learning as an active process in which learners construct meaning through interaction, reflection, and cognitive engagement. Knowledge is not passively received but actively built by the learner. Within this theoretical perspective, AI can serve as a learning facilitator supporting learners with feedback, practice opportunities, and linguistic input. However, ethical concerns arise when AI tools dominate learner output or replace cognitive effort. Excessive reliance on AI generated language contradicts constructivist principles by reducing active engagement and learner agency. From a constructivist standpoint, the ethical use of AI requires that learners remain central to the meaning-making process, with AI functioning as a supplementary aid rather than a substitute for learning.

## V. ACADEMIC INTEGRITY THEORY AND AI-GENERATED CONTENT

Academic integrity theory emphasizes originality, authenticity, and ethical scholarship as core values of education. In language learning, these values are reflected in learners' independent writing, translation, and interpretative work. AI-generated content challenges traditional notions of authorship and originality. When learners submit AI produced texts without acknowledgment, ethical boundaries are violated, leading to plagiarism and misrepresentation of competence. From a theoretical perspective, academic integrity demands transparency regarding AI assistance and a clear distinction between learning support and content ownership. This theory reinforces the need for ethical guidelines that address authorship, citation, and responsible use of AI in language education.

## VI. HUMAN-CENTRED AI THEORY

Human-centred AI theory advocates designing and using AI systems that prioritize human agency, dignity, and well-being. In educational contexts, this

approach insists that AI should support human decision-making rather than replace it.

- Applied to language teaching, human-centred AI emphasizes:
- Teacher authority in evaluation and pedagogy
- Learner autonomy and creative expression
- Transparency in AI generated feedback
- Explainability of AI processes

Ethically, AI should enhance human capacities while preserving the emotional, cultural, and interpretative dimensions of language learning that technology cannot replicate.

## VII. UNDERSTANDING ETHICAL USE OF AI IN EDUCATION

Ethical Artificial Intelligence (AI) in education refers to the responsible design, implementation, and use of AI driven technologies in ways that uphold human values, educational integrity, and social justice. As AI tools such as automated translation systems, grammar checkers, chatbots, and adaptive learning platforms become increasingly integrated into language education, ethical considerations become central to ensuring that technology supports rather than undermines the teaching and learning process.

In language learning contexts, ethical AI aims to enhance pedagogical effectiveness without replacing human judgment, teacher authority, or learner autonomy. Ethical AI frameworks emphasize transparency, accountability, fairness, privacy protection, and academic honesty, ensuring that learners benefit from technological innovation while remaining protected from misuse or unintended harm.

### Transparency in AI-Based Learning Systems

Transparency is a foundational ethical principle in AI-assisted education. Learners have the right to know when AI tools are being used, how they function, and what role they play in assessment or feedback. In language classrooms, transparency ensures that students understand whether feedback on grammar, translation, or writing is generated by a machine or guided by a human instructor. Lack of transparency can lead to confusion, over-reliance on AI outputs, and reduced critical thinking skills. Therefore, educators must clearly communicate the limitations of AI tools,

including their inability to fully understand cultural nuance, context, or creative expression elements that are crucial in language and translation studies.

### Privacy and Data Protection

Privacy and data protection are major ethical concerns in AI enabled education systems. Many AI tools collect, store, and analyze student data such as written assignments, voice recordings, learning patterns, and personal information. If not handled responsibly, such data can be misused, leaked, or exploited. Ethical AI practices require institutions and educators to ensure secure data storage, informed consent, and minimal data collection. In language learning environments, where students frequently submit original texts or translations, protecting intellectual ownership and personal identity becomes especially important. Compliance with data protection regulations and ethical data governance strengthens trust between learners, educators, and technology providers.

### Fairness and Bias Reduction

AI systems are trained on large datasets, which may contain cultural, linguistic, or social biases. In language education, biased AI tools can disadvantage learners based on accent, dialect, regional language variation, or nonstandard grammar usage. Such biases can negatively impact assessment accuracy and learner confidence. Ethical AI promotes fairness by continuously identifying and reducing bias in AI algorithms. Teachers must critically evaluate AI-generated feedback and ensure that it does not reinforce stereotypes or penalize linguistic diversity. In multilingual and multicultural classrooms, fairness is essential for inclusive and equitable learning experiences.

### Accountability and Human Supervision

Accountability in ethical AI emphasizes that AI should support educators, not replace them. Teachers and educational institutions remain responsible for instructional decisions, assessment outcomes, and ethical compliance. AI tools must function as assistive technologies rather than authoritative decision-makers. In language teaching, human supervision is essential for interpreting meaning, evaluating creativity, and addressing emotional or cultural aspects of communication areas where AI lacks

sensitivity. Ethical AI frameworks insist on maintaining human oversight to ensure pedagogical responsibility and learner well-being.

#### Academic Integrity and Responsible Use

One of the most debated ethical concerns is the impact of AI on academic integrity. While AI tools can support learning through drafting assistance, grammar correction, and vocabulary development, unethical use may lead to plagiarism, dependency, or misrepresentation of learner ability. Ethical AI use in education promotes learning enhancement rather than shortcut solutions. Clear institutional guidelines, assessment redesign, and ethical awareness training help students use AI responsibly. In language and translation studies, AI should be positioned as a learning aid, encouraging reflection and improvement rather than replacing original thinking or creative efforts.

### VIII. APPLICATIONS OF AI IN LANGUAGE TEACHING AND LEARNING

Artificial Intelligence (AI) has significantly transformed language teaching and learning by offering innovative tools that support instruction, enhance learner engagement, and improve assessment efficiency. The integration of AI technologies in language education facilitates personalized learning experiences, immediate feedback, and increased access to linguistic resources. The following subsections examine key applications of AI in language teaching and learning contexts.

#### Automated Writing Evaluation

Automated Writing Evaluation (AWE) systems play a crucial role in supporting second language (L2) writing development. AI powered tools such as Grammarly and ChatGPT provide real-time feedback on grammatical accuracy, sentence structure, coherence, vocabulary usage, and stylistic appropriateness. These tools enable learners to identify and correct errors independently, fostering learner autonomy and self-regulated learning. From a pedagogical perspective, AWE tools reduce teachers' workload related to repetitive error correction, allowing educators to focus on higher-order writing skills such as argument development, creativity, and discourse organization. However, ethical and

instructional supervision is essential, as AI-generated feedback may sometimes overlook contextual meaning, cultural nuance, or rhetorical intent.

#### Translation and Interpretation Tools

AI-based translation and interpretation tools such as Google Translate, DeepL, and AI assisted bilingual dictionaries have become valuable resources in language education and translation studies. These tools assist learners in understanding lexical meaning, sentence structure, and pronunciation, particularly in multilingual and beginner-level classrooms.

In translation pedagogy, AI tools function as supportive aids that help students compare source and target texts, analyze translation choices, and improve linguistic accuracy. Nevertheless, excessive dependence on machine translation may limit learners' analytical skills and cultural sensitivity. Therefore, educators must guide students in critically evaluating AI-generated translations rather than accepting them uncritically.

#### Intelligent Tutoring Systems

Intelligent Tutoring Systems (ITS) use AI driven algorithms and natural language processing to simulate human-like interaction and personalized instruction. AI chatbots and virtual tutors provide learners with opportunities for conversational practice, immediate corrective feedback, and pronunciation guidance without the fear of judgment. Such systems are particularly beneficial in improving speaking and listening skills, as they allow learners to practice repeatedly at their own pace. In addition, ITS can support learners outside the classroom, promoting continuous and autonomous language learning. However, these systems should complement rather than replace human interaction, as authentic communication involves emotional intelligence and cultural awareness beyond AI's current capabilities.

#### Adaptive Learning Platforms

Adaptive learning platforms employ AI to analyze learner performance, preferences, and progress, thereby customizing instructional content to individual needs. These platforms adjust difficulty levels, recommend targeted exercises, and personalize learning pathways based on learner data. In language learning, adaptive systems help address learner diversity by accommodating different proficiency

levels, learning speeds, and learning styles. This personalized approach enhances motivation and retention, particularly in large or heterogeneous classrooms. Nevertheless, ethical concerns related to data privacy and algorithmic transparency must be carefully addressed to ensure responsible implementation.

#### Assessment and Feedback

AI has also revolutionized language assessment and feedback mechanisms. AI based systems can efficiently generate quizzes, evaluate objective responses, detect linguistic errors, and provide immediate feedback. Automated assessment tools enhance consistency and reduce human bias in evaluating standardized language tasks. While AI-based assessment improves efficiency, it is less effective in evaluating creative writing, pragmatic competence, and interpretative skills. Therefore, a balanced assessment approach that combines AI-driven evaluation with human judgment is essential to maintain academic integrity and pedagogical validity.

### IX. ETHICAL CHALLENGES IN AI-ASSISTED LANGUAGE LEARNING

Despite the pedagogical advantages of Artificial Intelligence (AI) in language education, its integration presents several ethical challenges that require critical examination. These challenges affect learners, educators, and institutions and raise concerns related to privacy, learner autonomy, academic integrity, and the evolving role of teachers. Understanding these issues is essential for developing ethically responsible AI-assisted language learning environments.

#### Data Privacy and Surveillance

AI-based language learning applications often collect extensive user data, including personal information, writing samples, voice recordings, browsing history, and learning behavior patterns. From a research perspective, such data collection raises serious concerns regarding informed consent, data ownership, and digital surveillance. If appropriate safeguards are not implemented, collected data may be stored insecurely, shared with third parties, or used for commercial purposes without the learner's knowledge. In educational research, this challenge

highlights the need to examine learners' awareness of data usage and institutional data protection policies. Ethical AI frameworks emphasize transparency, anonymization, and compliance with data protection regulations to ensure learner trust and safety.

#### Over-Dependence on AI Tools

One of the most frequently reported ethical concerns in AI assisted language learning is learner over-dependence on AI tools. Students may excessively rely on AI systems for writing assignments, translating texts, generating responses, or completing assessments. Such dependence can hinder the development of critical thinking, linguistic competence, and creative expression. From a methodological standpoint, this issue can be explored through learner perception surveys and classroom observation studies that examine how AI usage affects independent learning habits. Research findings often suggest that while AI supports learning efficiency, unregulated use may weaken cognitive engagement and reduce genuine skill acquisition.

#### Inaccuracy and Algorithmic Bias

AI systems are not infallible and may produce inaccurate translations, incorrect grammatical suggestions, or culturally insensitive responses. These inaccuracies often result from biased training data or limited contextual understanding, which can mislead language learners, particularly beginners. In empirical research, this challenge can be analyzed by comparing AI-generated outputs with human evaluations to identify error patterns and bias tendencies. Such studies emphasize the importance of critical AI literacy among learners and the continued necessity of teacher mediation to correct inaccuracies and contextual misinterpretations.

#### Academic Integrity Issues

The unrestricted use of AI tools poses significant challenges to academic integrity. Practices such as AI generated assignments, automated paraphrasing, and impersonation threaten the authenticity of learner performance and assessment fairness. From a research methodology perspective, this issue is often investigated through questionnaire-based studies assessing students' ethical awareness and attitudes toward AI usage. Findings frequently indicate a lack

of clear institutional guidelines, highlighting the need for policy frameworks that define ethical and unethical uses of AI in academic contexts.

#### Teacher Replacement Concerns

The increasing use of AI in education has raised concerns regarding the potential replacement of human teachers. While AI can automate routine tasks such as grading and feedback, it lacks emotional intelligence, cultural sensitivity, and pedagogical judgment. Research literature consistently argues that AI should function as a supportive instructional tool rather than a substitute for educators. Qualitative studies involving teacher interviews often reveal that educators perceive AI as an assistant that enhances efficiency but cannot replace the human role in mentoring, motivation, and ethical decision-making.

### X. STRATEGIES FOR ETHICAL AI INTEGRATION IN LANGUAGE EDUCATION

The ethical integration of Artificial Intelligence (AI) in language education requires a balanced approach that combines pedagogical innovation with moral responsibility. The following point-wise strategies outline practical and research-informed measures for responsible AI adoption in language teaching and learning.

#### Teacher AI Collaboration Framework

- Teachers should clearly guide students regarding when, why, and how AI tools may be used in language learning tasks.
- AI should function strictly as a supportive assistant, not as an autonomous evaluator or replacement for teacher judgment.
- Human supervision is essential for interpreting meaning, creativity, and cultural nuance in language use.

#### Clear Institutional Policies and Governance

- Educational institutions must establish formal AI usage policies to ensure ethical consistency.
- Policies should explicitly define:
- Approved and permissible AI tools
- Restrictions on AI use in examinations, assignments, and research work

- Data privacy, consent, and data storage regulations
- Clear governance structures promote accountability and academic fairness.

#### AI Literacy for Teachers and Learners

- Both teachers and learners must be trained to understand:
- Basic working principles of AI systems
- Limitations, inaccuracies, and potential bias in AI outputs
- Methods to verify information and cross-check accuracy
- Ethical citation and acknowledgment of AI-assisted content
- AI literacy reduces misuse and encourages critical engagement with technology.

#### Promotion of Critical Thinking and Creativity

- Language assignments should prioritize original thought, interpretation, and reflection over mechanical output.
- Tasks such as reflective writing, comparative translation analysis, and cultural interpretation foster higher-order thinking.
- Emphasizing human creativity ensures that AI enhances learning rather than replacing cognitive effort.

#### Ethical AI Use Training Programs

- Regular workshops, seminars, and orientation programs should be conducted on ethical AI usage.
- Training should address academic honesty, responsible tool usage, and digital ethics. Such programs build ethical awareness among both faculty and students.

#### Continuous Monitoring and Ethical Review

- Institutions should implement continuous monitoring mechanisms to evaluate AI usage practices.
- Ethical review committees can assess emerging challenges and revise policies accordingly.
- Empirical tools such as surveys, feedback forms, and classroom studies can support evidence-based decision-making.

### Benefits of Ethical AI Use

When used responsibly, AI offers:

- Ethical use of AI promotes learner's self-direction by supporting language practice while encouraging independent thinking and self-reflection.
- It helps maintain academic integrity by ensuring transparency, originality, and responsible assistance in language tasks such as writing and translation.
- Ethical AI integration enhances inclusive learning environments by reducing bias and supporting diverse linguistic and cultural backgrounds.
- When used responsibly, AI provides timely feedback and personalized support, improving language accuracy without replacing human judgment.
- Ethical AI use strengthens teacher authority and pedagogical control, positioning educators as guides and evaluators rather than passive observers.
- It fosters critical digital literacy, enabling learners to evaluate AI generated language critically and verify accuracy.
- Ethical AI practices build trust between learners, teachers, and institutions, particularly in matters of data privacy and transparency.
- Responsible AI use supports human-centered language education, preserving creativity, interpretation, and cultural sensitivity in communication.

### XI. LIMITATIONS

- The study is purely theoretical and conceptual in nature and does not include empirical data or experimental evidence.
- The discussion is limited to descriptive interpretation of ethical and educational theories, without classroom-based validation.
- The paper does not examine specific AI tools or platforms in practical teaching contexts.
- As a theory-based study, the conclusions remain interpretative rather than generalizable across diverse educational settings.

### XII. CONCLUSION

AI is a transformative force in language education, but its benefits must be balanced with ethical considerations. Teachers, learners, and institutions must work together to ensure AI supports and does not replace human learning. Ethical use requires transparency, responsibility, and a strong commitment to academic integrity. When applied responsibly, AI can enrich language education, promote learner agency, and foster an inclusive digital learning environment. The Research highlights that AI must function as a supportive educational tool rather than a replacement for human judgment, creativity, and pedagogical responsibility. Ultimately, the ethical use of AI in language education requires a balanced approach that aligns technological innovation with educational values, ensuring that learning remains meaningful, responsible, and ethically informed.

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