

O‘ZBEKISTON RESPUBLIKASI
OLIY TA’LIM, FAN VA INNOVATSIYALAR VAZIRLIGI

QORAQALPOQ DAVLAT UNIVERSITETI
HUZURIDAGI PEDAGOG KADRLARNI QAYTA TAYYORLASH VA
ULARNING MALAKASINI OSHIRISH TARMOQ MARKAZI

**“Xorijiy tilni o‘qitishda sun‘iy intellek texnologiyalaridan
foydalanish”**

moduli bo‘yicha

O‘QUV–USLUBIY MAJMUUA

NUKUS– 2026

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TASTÍYQLAYMAN”

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“ ____ ” _____ 2026 jil

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O‘ Q U V – U S L U B I Y M A J M U A

NUKUS– 2026

Modulning o‘quv-uslubiy majmuasi Oliy ta’lim, fan va innovatsiyalar vazirligining 2024-yil 27-dekabrda 485-sonli buyrug‘i bilan tasdiqlangan o‘quv dasturi va o‘quv rejasiga muvofiq ishlab chiqilgan.

Tuzuvchi: p.f.n., dosent

D. Mamirbaeva

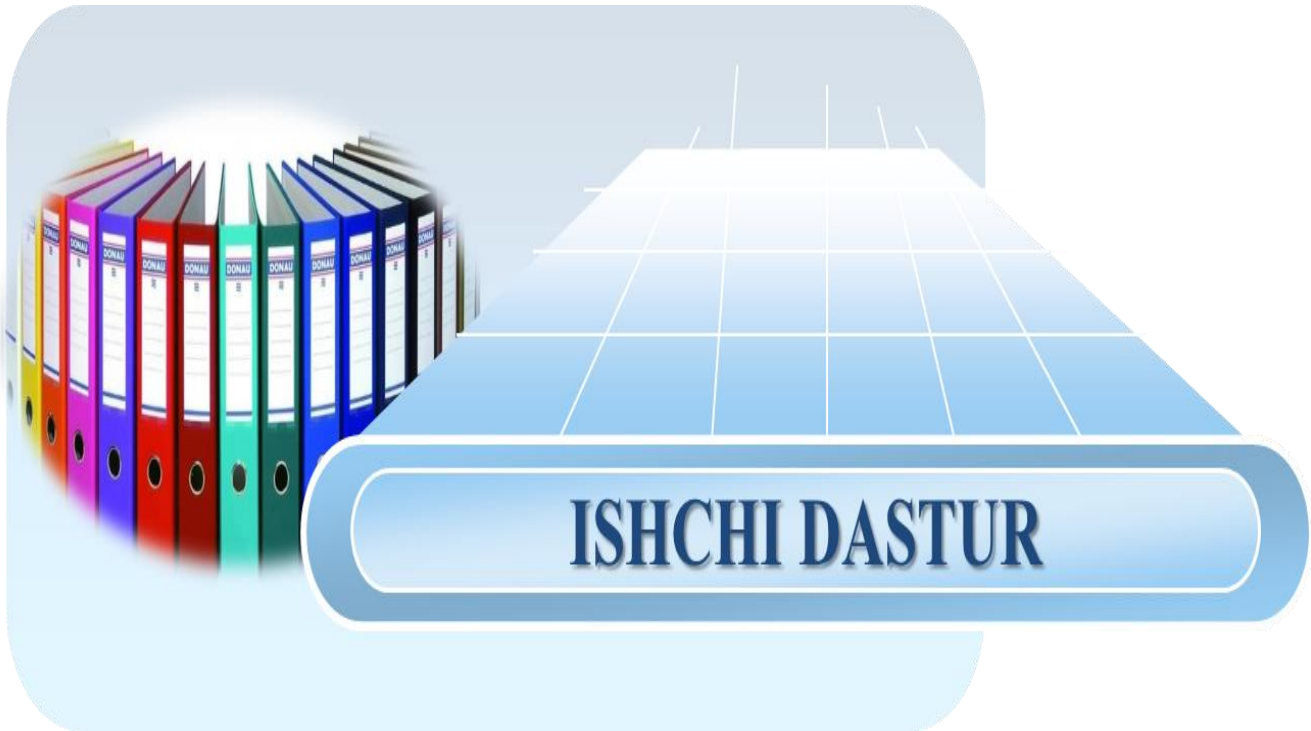
Taqrizchilar: p.f.n., dosent

A.U.Tajieva

O‘quv-uslubiy majmua Qoraqalpoq davlat universiteti kengashining qarori bilan
nashrga tavsiya qilingan
(“__” _____ 2025-yildagi ____ -sonli bayonoma)

MUNDARIJA

ISHCHI DASTUR.....	6
NAZARIY MASHG‘ULOT MATERIALLARI	12
AMALIY MASHG‘ULOT MATERIALLARI	23
FOYDALANILGAN ADABIYOTLAR RO‘YXATI.....	23
GLOSSARIY	33
NAZORAT SAVOLLARI	



ISHCHI DASTUR

Kirish

O‘zbekiston Respublikasi Prezidentining 2017-yil 7 fevraldagi PF-4947-sonli Farmoni bilan tasdiqlangan “2017-2021-yillarda O‘zbekiston Respublikasini rivojlantirishning beshta ustuvor yo‘nalishi bo‘yicha Harakatlar Strategiyasi”da milliy kadrlarning raqobatbardoshligi va umumjahon amaliyotiga asoslangan oliy ta‘lim milliy tizimining sifati oshishiga, Bolonya jarayoni ishtirokchi mamlakatlari diplomlarini o‘zaro tan olishga, o‘qituvchi va talabalar bilan almashuv dasturlarini amalga oshirishga ko‘maklashuvchi 1999 yil 19-iyundagi Bolonya deklaratsiyasiga qo‘shilish masalasini ko‘rib chiqish belgilab qo‘yilgan.

O‘zbekiston Respublikasi Prezidentining 2019 yil 8 oktyabrdagi PF-5847-son Farmoni bilan tasdiqlangan “O‘zbekiston Respublikasi Oliy ta‘lim tizimini 2030 yilgacha rivojlantirish konsepsiyasi”da oliy ta‘lim jarayonlariga raqamli texnologiyalar va zamonaviy o‘qitish usullarni joriy etish, yoshlarni ilmiy faoliyatga keng jalb etish, korrupsiyaga qarshi kurashish, muhandislik-texnik ta‘lim yo‘nalishlarida tahsil olayotgan talabalar ulushini oshirish, kredit-modul tizimini joriy etish, o‘quv rejalarida amaliy ko‘nikmalarni oshirishga qaratilgan mutaxassislik fanlari bo‘yicha amaliy mashg‘ulotlar ulushini oshirish bo‘yicha aniq vazifalar belgilab berilgan.

O‘zbekiston Respublikasi Prezidentning 2019 yil 8 oktyabrdagi Farmoni bilan tasdiqlangan “O‘zbekiston Respublikasi oliy ta‘lim tizimini 2030 yilgacha rivojlantirish konsepsiyasi”ga ko‘ra mamlakatdagi oliy ta‘lim bilan qamrov darajasini oshirish, xalqaro standartlar asosida yuqori malakali, kreativ va tizimli fikrlaydigan, mustaqil qaror qabul qila oladigan kadrlar tayyorlash, ularning intellektual qobiliyatlarini namoyon etishi va ma‘naviy barkamol shaxs sifatida shakllanishi uchun zarur shart-sharoit yaratish belgilangan. Shuningdek, mamlakatimizning barcha sohalarida islohotlarni amalga oshirish, odamlarning dunyoqarashini o‘zgartirish, yetuk va zamon talabiga javob beradigan mutaxassis

kadrlarni tayyorlashni hayotning o'zi taqozo etmoqda. Respublikada ta'lim tizimini mustahkamlash, uni zamon talablari bilan uyg'unlashtirishga katta ahamiyat berilmoqda. Bunda mutaxassis kadrlarni tayyorlash, ta'lim va tarbiya berish tizimi islohatlar talablari bilan chambarchas bog'langan bo'lishi muhim ahamiyat kasb etadi. Zamon talablariga javob bera oladigan mutaxassis kadrlarni tayyorlash, Davlat talablari asosida ta'lim va uning barcha tarkibiy tuzilmalarini takomillashtirib borish oldimizda turgan dolzarb masalalardan biridir.

Ushbu dasturda Xorijiy tilni o'qitishda sun'iy intellekt texnologiyalaridan foydalanish tuzilishi va mazmuni, sun'iy intellekt texnologiyalaridan foydalanish usullari, Xorijiy til ko'nikmalarini o'qitishda sun'iy intellektdan foydalanish, tinglab tushunish ko'nikmasini o'qitishda sun'iy intellekt texnologiyalari, sun'iy intellekt texnologiyalariga asoslangan audio ilovalar va sun'iy intellekt yordamida tinglab tushunish ko'nikmasini baholash va tahlil qilish, o'qish ko'nikmasini rivojlantirishda sun'iy intellektdan foydalanish, sun'iy intellekt bilan interaktiv o'qish tajribasi, matnni tahlil qilish, asosiy g'oyalarni aniqlash va o'qish ko'nikmasini baholash, sun'iy intellekt yordamida grammatika va uslubni tahrir qilish, lug'at boyligini oshirish va ko'nikmalarini o'qitishda sun'iy intellektdan foydalanish, kreativ va tanqidiy fikrlashni rivojlantirishda sun'iy intellekt texnologiyalari, sun'iy intellekt yordamida mummoni tahlil qilish va keng qamrovli yechimlar topish, gemifikatsiya va kreativ o'yinlari bayon etilgan.

Modulning maqsadi va vazifalari

Modulning maqsadi: qayta tayyorlash va malaka oshirish kursi tinglovchilarini innovatsion ta'lim muhiti sharoitida Xorijiy tilni o'qitishda sun'iy intellekt texnologiyalaridan foydalanish tuzilishi va mazmuni, sun'iy intellekt texnologiyalaridan foydalanish usullari, xorijiy til ko'nikmalarini o'qitishda sun'iy intellektdan foydalanishga oid yangi bilimlar, ko'nikmalar hamda malakalarini tarkib toptirishdan iborat.

Modulning vazifalari:

- Xorijiy tilni o'qitishda sun'iy intellekt texnologiyalaridan foydalanishning nazariy asoslarini tahlil qilish;

- Xorijiy tilni o'qitishda sun'iy intellekt texnologiyalarining tuzilishi va mazmunini aniqlash;
- Sun'iy intellekt yordamida matnni tahlil qilish, asosiy g'oyalarni aniqlash va o'qish ko'nikmasini baholash;
- Yozish ko'nikmasini o'qitishda sun'iy intellekt vositalari;
- Brainstorming va matn tuzilmasini rejalashtirish;
- Sun'iy intellekt yordamida grammatika va uslubni tahrir qilish, lug'at boyligini oshirish;
- Yozish ko'nikmasini baholashda sun'iy intellekt Gapirish va talaffuz ko'nikmalarini o'qitishda sun'iy intellektdan foydalanish;
- Sun'iy intellekt yordamida interaktiv muloqot va virtual muhit yaratish'
- Xorijiy tilda kommunikatsiya ko'nikmalarini rivojlantirish;
- Gapirish ko'nikmasini baholashda sun'iy intellekt. Kreativ va tanqidiy fikrlashni rivojlantirishda sun'iy intellekt texnologiyalari. Sun'iy intellekt yordamida mummoni tahlil qilish va keng qamrovli yechimlar topish;
- Gemifikatsiya va kreativ o'yinlaridan foydalanish.

-

Modul bo'yicha tinglovchilarning bilim, ko'nikma, malaka va kompetensiyalariga qo'yiladigan talablar

“Xorijiy tilni o'qitishda sun'iy intellekt texnologiyalaridan foydalanish” modulini o'zlashtirish jarayonida:

Tinglovchi:

- Xorijiy tilni o'qitishda sun'iy intellekt texnologiyalaridan foydalanishning nazariy asoslarini tahlil qilish;
- Xorijiy tilni o'qitishda sun'iy intellekt texnologiyalarining tuzilishi va mazmunini aniqlash;
- Sun'iy intellekt yordamida matnni tahlil qilish, asosiy g'oyalarni aniqlash va o'qish ko'nikmasini baholash;
- Yozish ko'nikmasini o'qitishda sun'iy intellekt vositalari;
- Brainstorming va matn tuzilmasini rejalashtirish;

- Sun'iy intellekt yordamida grammatika va uslubni tahrir qilish, lug'at boyligini oshirish;
- Yozish ko'nikmasini baholashda sun'iy intellekt Gapirish va talaffuz ko'nikmalarini o'qitishda sun'iy intellektdan foydalanish;
- Sun'iy intellekt yordamida interaktiv muloqot va virtual muhit yaratish'
- Xorijiy tilda kommunikatsiya ko'nikmalarini rivojlantirish;
- Sun'iy intellekt yordamida tayanch va xususiy-metodik kompetensiyalarni rivojlantirish yo'llari haqidagi **bilimlarga ega bo'lishi**;
- kreativlik-pedagogik ijodkorlikdan foydalangan xolda sun'iy intellektdan foydalanish **ko'nikma va malakalarini egallashi**;

Modulni tashkil etish va o'tkazish bo'yicha tavsiyalar

“Xorijiy tilni o'qitishda sun'iy intellekt texnologiyalaridan foydalanish” moduli ma'ruza va amaliy mashg'ulotlar shaklida olib boriladi.

Kursni o'qitish jarayonida ta'limning zamonaviy metodlari, axborot-kommunikatsiya texnologiyalari qo'llanilishi, shuningdek, ma'ruza darslarida zamonaviy sun'iy intellekt texnologiyalari yordamida taqdimot va elektron-didaktik texnologiyalarni;

- o'tkaziladigan amaliy mashg'ulotlarda sun'iy intellekt texnologiyalari, blis-so'rovlar, aqliy hujum, guruhli fikrlash, kichik guruhlar bilan ishlash, va boshqa interfaol ta'lim metodlarini qo'llash nazarda tutiladi.

Modulning o'quv rejadagi boshqa modullar bilan bog'liqligi va uzviyligi

“Xorijiy tilni o'qitishda sun'iy intellekt texnologiyalaridan foydalanish” moduli bo'yicha mashg'ulotlar o'quv rejasidagi “Ta'lim jarayoniga raqamli texnologiyalarni joriy etish”, “Talabalar bilimni baholash” hamda “Yo'nalishning dolzarb muammolari va zamonaviy yutuqlari” kabi modullar bilan uzviy aloqadorlikda olib boriladi.

Modulning oliy ta'limdagi o'rni

Modulni o'zlashtirish orqali tinglovchilar ta'lim va tarbiya jarayonlarini normativ-huquqiy asoslarini o'rganish, ularni tahlil etish, amalda qo'llash va baholashga doir kasbiy kompetentlikka ega bo'ladilar.

MODUL BO‘YICHA SOATLAR TAQSIMOTI

(jami 6 soat: 2 soat nazariy, 4 soat amaliy)

	Modul mavzulari	Auditoriya o‘quv yuklamasi		
		jami	jumladan	
			Nazariy	Amaliy
1.	<p>Sun’iy intellektning tarixiy rivojlanishi, asosiy tushunchalari, turlari va amaliyotda qo‘llanilishi.</p> <p>Ta’limda sun’iy intellektning ahamiyati, afzalliklari va kamchiliklari. Dars jarayonida o‘qituvchi va sun’iy intellektning vazifalari va o‘rtadagi balans</p>	2	2	2
2.	<p>Xorijiy til ko‘nikmalarini o‘qitishda sun’iy intellektdan foydalanish.</p> <p>Tinglab tushunish ko‘nikmasini o‘qitishda sun’iy intellekt texnologiyalari. Sun’iy intellekt texnologiyalariga asoslangan audio ilovalar. Sun’iy intellekt yordamida tinglab tushunish ko‘nikmasini baholash va tahlil qilish. O‘qish ko‘nikmasini rivojlantirishda sun’iy intellektdan foydalanish. Sun’iy intellekt bilan interaktiv o‘qish tajribasi. Sun’iy intellekt yordamida matnni tahlil qilish, asosiy g‘oyalarni aniqlash va o‘qish ko‘nikmasini baholash. Yozish ko‘nikmasini o‘qitishda sun’iy intellekt vositalari.</p>	4		2
	Jami:	6	2	4

NAZARIY MASHG‘ULOTLAR MAZMUNI (4 soat)

1- MAVZU: Sun’iy intellektning tarixiy rivojlanishi, asosiy tushunchalari, turlari va amaliyotda qo‘llanilishi (4 soat)

1. Ta’limda sun’iy intellektning ahamiyati, afzalliklari va kamchiliklari.
2. Dars jarayonida o‘qituvchi va sun’iy intellektning vazifalari va o‘rtadagi balans.

AMALIY MASHG‘ULOTLAR MAZMUNI (8 soat)

1-AMALIY MASHG‘ULOT

1- MAVZU: Sun’iy intellektning tarixiy rivojlanishi, asosiy tushunchalari, turlari va amaliyotda qo’llanilishi (4 soat)

1. Ta’limda sun’iy intellektning ahamiyati, afzalliklari va kamchiliklari.
2. Dars jarayonida o’qituvchi va sun’iy intellektning vazifalari va o’rtadagi balans.

2-MAVZU: Xorijiy til ko’nikmalarini o’qitishda sun’iy intellektdan foydalanish (2 soat)

Tinglab tushunish ko’nikmasini o’qitishda sun’iy intellekt texnologiyalari. Sun’iy intellekt texnologiyalariga asoslangan audio ilovalar. Sun’iy intellekt yordamida tinglab tushunish ko’nikmasini baholash va tahlil qilish. O’qish ko’nikmasini rivojlantirishda sun’iy intellektdan foydalanish. Sun’iy intellekt bilan interaktiv o’qish tajribasi. Sun’iy intellekt yordamida matnni tahlil qilish, asosiy g’oyalarni aniqlash va o’qish ko’nikmasini baholash. Yozish ko’nikmasini o’qitishda sun’iy intellekt vositalari.

O‘QITISH SHAKLLARI

Mazkur modul bo’yicha o’quv mashg‘ulotlari asosan interaktiv ta’lim prinsiplari asosida quyidagi o’qitish shakllarida tashkil etiladi.

- ma’ruzalar, amaliy mashg‘ulotlar (ma’lumotlar va texnologiyalarni anglab olish, nazariy bilimlarni mustahkamlash);

- davra suhbatlari (egallangan bilimlar asosida kabi kompetensiyalarni rivojlantirish, eshitish, idrok qilish va mantiqiy xulosalar chiqarish);

bahs va munozaralar (o‘zaro tajriba almashish orqali kasbiy kompetensiyalarni rivojlantirish).

NAZARIY MASHG‘ULOT MATERIALLARI

LECTURE 1. The Historical Development, Key Concepts, Types, and Practical Applications of Artificial Intelligence (4 hours)

Plan:

1. Historical Development of Artificial Intelligence
2. Key Concepts in Artificial Intelligence
3. Types of Artificial Intelligence
4. Practical Applications of Artificial Intelligence
5. **Key words:** *Artificial Intelligence, foundations, the birth of AI, AI Boom, Deep Learning, NLP*



Historical Development of Artificial Intelligence

The historical development of AI can be broken down into several key phases, each marking significant advancements in the field. These developments reflect technological innovations, breakthroughs in computational theory, and the growing understanding of how to replicate human intelligence.

Early Foundations and Predecessors (Pre-1940s)

Although artificial intelligence as a field did not officially emerge until the mid-20th century, the idea of machines mimicking human intelligence has been present for centuries. Ancient philosophers and mathematicians pondered the possibility of creating artificial beings with human-like qualities.

In the 19th century, figures like Charles Babbage and Ada Lovelace laid the groundwork for modern computing with the development of the Analytical Engine, a mechanical device designed to carry out mathematical operations. Lovelace, often credited as the first computer programmer, speculated about the potential for machines to perform more than just arithmetic calculations, opening the door to the idea of intelligent machines.

The Birth of AI (1940s-1950s)

The formal development of AI began with the work of Alan Turing, whose pioneering ideas about computation and intelligence remain foundational today. In 1936, Turing proposed the "Turing Machine," a theoretical construct that could simulate any computational process. Turing's work was later extended in his 1950 paper, *Computing Machinery and Intelligence*, where he introduced the Turing Test, a method for assessing a machine's ability to exhibit intelligent behavior indistinguishable from that of a human.

In the late 1940s and early 1950s, researchers began developing early AI systems, such as the Logic Theorist (1956), created by Allen Newell and Herbert A. Simon. This program was capable of solving mathematical logic problems, marking one of the first instances of AI performing tasks requiring reasoning.

The Early AI Boom (1956-1970s)

The term "Artificial Intelligence" was officially coined by John McCarthy in 1956, during the famous Dartmouth Conference, which is widely regarded as the birthplace of AI as a formal academic discipline. During this period, researchers focused on symbolic AI, where machines were programmed to manipulate symbols and follow explicit rules to perform tasks.

Early AI research in the 1960s and 1970s led to the development of expert systems, which aimed to replicate human decision-making abilities in specialized fields, such as medical diagnosis. The first successful expert system, *DENDRAL*, was developed to assist chemists in identifying molecular structures.

The AI Winter (1970s-1980s)

Despite the early successes, AI research faced significant setbacks in the 1970s and 1980s. The limitations of early AI systems, such as their inability to scale to real-world problems or understand ambiguous input, led to disillusionment in the field.

Funding for AI research dwindled, and this period is often referred to as the "AI Winter."

The Rise of Machine Learning (1990s-2000s)

In the 1990s, AI experienced a resurgence with the advent of machine learning (ML). Unlike earlier symbolic AI, which relied on explicit programming, machine learning focused on developing algorithms that allow systems to learn from data. This shift in approach led to significant advancements in areas such as speech recognition, computer vision, and natural language processing.

The 1997 victory of IBM's *Deep Blue* over world chess champion Garry Kasparov marked a landmark achievement in AI, demonstrating the potential of AI in competitive gaming and decision-making.

The Era of Deep Learning (2010s-Present)

The 2010s witnessed an explosion in AI capabilities, driven by advancements in deep learning and neural networks. Deep learning, a subset of machine learning, uses multi-layered neural networks to process large volumes of data and extract meaningful patterns. This approach has led to breakthroughs in image and speech recognition, autonomous vehicles, and even healthcare applications.

AI's rapid progress has also been fueled by increased access to big data, improved computing power, and specialized hardware like Graphics Processing Units (GPUs). In 2016, Google's DeepMind developed *AlphaGo*, an AI program that defeated the world champion of the complex board game Go, further cementing AI's ability to solve problems once thought to be uniquely human.

2. Key Concepts in Artificial Intelligence

Artificial Intelligence encompasses a range of concepts and technologies, each contributing to the field's ability to replicate human cognitive functions. Below are some of the most fundamental concepts in AI:

Machine Learning (ML)

Machine learning is a branch of AI that focuses on the development of algorithms that enable machines to learn from data. Instead of relying on explicit

programming, machine learning algorithms identify patterns and make predictions based on input data. Common types of machine learning include:

- **Supervised Learning:** The model is trained on labeled data, where the correct output is known.
- **Unsupervised Learning:** The model learns from unlabeled data and seeks to find underlying structures or patterns.
- **Reinforcement Learning:** The model learns by interacting with an environment and receiving feedback through rewards or penalties.

Deep Learning (DL)

Deep learning, a subset of machine learning, involves the use of neural networks with many layers (hence "deep") to model complex relationships in data. Deep learning has revolutionized AI, particularly in areas such as image recognition, language processing, and natural language generation.

Neural Networks

Neural networks are computational models inspired by the structure of the human brain. They consist of layers of interconnected nodes (neurons) that process information and generate outputs. Each layer of neurons performs a specific computation, with deeper layers capturing more abstract representations of the input data.

Natural Language Processing (NLP)

Natural Language Processing is a subfield of AI that focuses on enabling machines to understand, interpret, and generate human language. NLP involves tasks such as speech recognition, text analysis, sentiment analysis, and machine translation.

Computer Vision

Computer vision is the field of AI that enables machines to interpret and understand visual information from the world. It involves tasks such as image classification, object detection, facial recognition, and scene reconstruction.

3. Types of Artificial Intelligence

AI can be classified into several types based on its scope, functionality, and ability to replicate human intelligence:

Narrow AI (Weak AI)

Narrow AI, also known as weak AI, refers to systems designed to perform specific tasks. These systems excel in their designated domain but lack general intelligence. Examples include Siri, Alexa, and Google's search algorithms. These systems are highly specialized and cannot perform tasks outside their designated function.

General AI (Strong AI)

General AI, or strong AI, refers to machines that possess the ability to understand, learn, and apply intelligence across a broad range of tasks. While general AI is still theoretical, it remains a goal for AI researchers to create machines that exhibit human-like cognition.

Superintelligent AI

Superintelligent AI refers to a hypothetical machine that surpasses human intelligence in virtually every domain, including creativity, problem-solving, and emotional intelligence. The concept of superintelligent AI raises important ethical concerns and the potential risks associated with AI development.

4. Practical Applications of Artificial Intelligence

AI has a wide range of practical applications across various industries. Below are some of the key sectors where AI is making a significant impact:

Healthcare

AI has the potential to revolutionize healthcare by improving diagnostics, personalizing treatment plans, and optimizing hospital management. AI-powered systems can analyze medical images to detect diseases like cancer, assist in drug discovery, and even predict patient outcomes based on historical data.

Transportation

Autonomous vehicles, drones, and smart traffic systems are transforming transportation. AI technologies enable vehicles to navigate traffic, avoid obstacles, and make real-time decisions without human intervention. This has the potential to reduce accidents, improve efficiency, and create more sustainable transportation solutions.

Finance

AI is increasingly used in the finance industry for tasks such as fraud detection, algorithmic trading, risk assessment, and customer service. Machine learning algorithms can analyze vast amounts of financial data to identify trends, predict market movements, and make informed investment decisions.

Education

AI is also making its mark in education through personalized learning platforms, automated grading systems, and virtual tutors. AI can help educators tailor lessons to individual students' needs, making education more accessible and effective.

Lecture Title: Types and Usage of Artificial Intelligence in Teaching English

Abstract

Artificial Intelligence (AI) is revolutionizing the education sector, particularly in language learning. This lecture aims to explore the various types of AI technologies and their practical applications in teaching English. The session will cover AI-powered tools that support language acquisition, improve language skills, and offer personalized learning experiences. Additionally, the lecture will highlight how educators can integrate AI in the classroom to enhance teaching and student engagement.

Introduction

As the digital world evolves, Artificial Intelligence (AI) is becoming a significant factor in transforming various fields, including education. The integration of AI in teaching English offers numerous benefits, such as personalized learning experiences, instant feedback, and improved student engagement. In the context of language learning, AI helps in automating repetitive tasks, assessing student performance, and providing tailored content that caters to individual needs.

This lecture will delve into the types of AI used in teaching English and discuss their practical applications in classroom settings. Teachers will gain insights into how AI can be integrated into English teaching to enhance student learning and foster an interactive learning environment.

1. Introduction to Artificial Intelligence in Language Education

AI in language education encompasses a broad range of technologies designed to support both teachers and students in acquiring and mastering a new language. The implementation of AI technologies in English language teaching (ELT) brings innovative solutions that address traditional challenges in education, such as time constraints, large class sizes, and the need for individualized instruction.

Key concepts in AI that are relevant to English teaching include:

- **Natural Language Processing (NLP):** Enables machines to understand and process human language.
- **Machine Learning (ML):** Systems that learn from data and can adapt to students' progress and needs.
- **Speech Recognition:** Recognizes and processes spoken language, useful for language practice and pronunciation.
- **Chatbots:** AI-driven conversational agents designed to simulate human interactions, facilitating language practice.

These technologies can be integrated into various teaching and learning tools to enhance language acquisition and student engagement.

Types of AI Used in Teaching English

Natural Language Processing (NLP)

Natural Language Processing (NLP) allows machines to interpret and generate human language. In the context of English language teaching, NLP can assist in a variety of ways:

- **Grammar and Syntax Analysis:** AI tools powered by NLP can analyze written or spoken text for grammatical accuracy. Tools like **Grammarly** and **Hemingway Editor** provide students with real-time feedback on their writing.
- **Text Summarization and Analysis:** AI tools can help students summarize articles or essays, extracting key ideas and supporting language development. This can be useful in reading comprehension exercises.
- **Language Translation:** AI translation tools, such as **Google Translate**, enable students to translate texts from one language to another, enhancing vocabulary acquisition and contextual understanding.

Speech Recognition

Speech recognition is a key technology for English language learners to practice their pronunciation and speaking skills. Some AI-powered applications allow students to interact with the system using their voice, receiving instant feedback on their pronunciation and fluency. Examples include:

- **Duolingo:** A language learning app that uses speech recognition to assess students' pronunciation as they practice different language skills.
- **Rosetta Stone:** An AI-based language learning platform that uses speech recognition to help learners improve their pronunciation and speaking ability in English.

These tools provide immediate feedback on pronunciation errors, helping students improve over time without needing constant teacher intervention.

Chatbots and Virtual Assistants

Chatbots are AI-driven conversational agents that can simulate human-like interactions, providing a practical way for students to practice conversational English. These chatbots engage students in dialogue and can assess the student's

responses, making them ideal tools for developing language fluency and comprehension.

- **English Practice Bots:** Programs like **Replika** and **Mitsuku** are designed for conversation practice, helping students learn new vocabulary, sentence structures, and improve their conversational skills.
- **Virtual Teaching Assistants:** AI-based assistants like **Google Assistant** and **Siri** can help students with specific questions, such as definitions, vocabulary, and grammar, offering a supplementary resource for learning.

Personalized Learning Tools

One of the biggest advantages of AI in education is its ability to provide personalized learning experiences. AI systems can analyze students' progress and adapt content to match their individual needs. This approach helps students learn at their own pace, ensuring that they are constantly challenged without being overwhelmed.

- **Adaptive Learning Platforms:** Platforms like **Knewton** and **Smart Sparrow** use AI to adjust the difficulty level of tasks based on the learner's performance, helping students who may need more time on specific concepts.
- **AI-Driven Content Creation:** AI tools like **Quillbot** can assist in content creation and writing tasks. They can rephrase or expand on ideas, helping students develop their writing skills by suggesting more appropriate vocabulary, tone, and sentence structures.

AI-Powered Language Games and Apps

Gamification is a proven way to motivate students and enhance their learning experiences. AI-powered language learning games provide interactive and engaging ways to practice English in a fun and supportive environment.

- **Memrise:** An app that uses AI to create personalized language learning experiences through flashcards, games, and other interactive activities. It adapts to the learner's progress and ensures that they focus on areas that need improvement.
- **Babbel:** Another AI-powered language learning app that adapts lessons to the user's language level and focuses on conversational English, helping learners practice real-life scenarios.

Practical Applications of AI in Teaching English

Now that we have discussed the types of AI technologies, let's look at some practical applications for teachers in the classroom.

Using AI for Feedback and Assessment

AI tools can assist teachers in providing real-time feedback and assessments. This is particularly useful in large classrooms, where individual attention may be limited. AI-powered platforms can automatically grade assignments and provide feedback on areas for improvement.

For instance:

- **Automated Essay Scoring:** Systems like **Turnitin** or **ETS's Criterion** can evaluate students' written work, providing feedback on grammar, spelling, punctuation, and overall structure.
- **Personalized Feedback:** Platforms like **Quizlet** and **Kahoot!** offer tools for teachers to create personalized quizzes, providing instant feedback based on the student's performance.

Enhancing Pronunciation and Fluency

Pronunciation and fluency are critical aspects of language learning. AI-driven tools can be utilized in the classroom to help students develop these skills:

- **Pronunciation Practice:** Speech recognition tools can help students practice pronunciation by offering immediate feedback. Teachers can use platforms such as **SpeechAce** or **Pronunciation Studio** to provide personalized practice for each student.
- **Fluency Development:** AI chatbots, such as **ChatGPT** or **Botsify**, can help students practice their conversational skills, offering endless opportunities for practice with simulated conversations.

Language Learning with AI Chatbots

AI chatbots enable students to practice speaking, listening, and writing in a non-judgmental environment. This allows them to engage in conversations and receive corrections without the pressure of a live audience. For example:

- **AI Tutors:** AI-powered platforms like **Socratic** (from Google) and **Grammarly's writing assistant** help students develop written and verbal communication skills by providing immediate feedback and tips for improvement.

Classroom Efficiency and Administrative Tasks

AI can also reduce the administrative burden on teachers, allowing more time for personalized instruction. AI-powered tools can streamline tasks such as attendance, scheduling, and grading. Platforms like **Google Classroom** and **Edmodo** use AI to facilitate lesson planning, resource sharing, and student progress tracking.

Enhancing Collaborative Learning

AI can support collaborative learning by connecting students with peers who have similar or complementary learning goals. AI-based learning management systems (LMS) can group students based on their strengths and weaknesses, facilitating peer-to-peer interactions and collaborative learning.

Ethical Considerations and Challenges of AI in Education

While AI offers numerous benefits in education, there are also concerns that educators should be aware of:

- **Data Privacy:** AI systems often require access to large amounts of personal data to function effectively. Teachers must ensure that student data is protected and used responsibly.
- **Bias in AI Algorithms:** AI algorithms are trained on existing datasets, which can sometimes contain biases. This could lead to discriminatory outcomes, particularly in assessments and language learning applications.
- **Teacher Roles:** AI should not replace human teachers but rather augment their abilities. Teachers must remain central to the educational process, using AI as a tool to enhance their teaching rather than substitute for it.

Conclusion

Artificial Intelligence has the potential to transform the way English is taught and learned. From personalized learning experiences to real-time feedback and

assessment, AI offers tools that can enhance both the teaching and learning process. However, teachers must remain mindful of ethical concerns and ensure that AI is used responsibly and in conjunction with traditional teaching methods. By effectively integrating AI technologies into the classroom, teachers can provide students with innovative, engaging, and personalized learning experiences that prepare them for the future.

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AMALIY MASHG'ULOT MATERIALLARI

Lesson Plan: Using Artificial Intelligence in Teaching Foreign Languages

Course Title: Teacher Training Course on Integrating Technology in Language Teaching

Lesson Title: Using Artificial Intelligence (AI) in Teaching Foreign Languages

Duration: 90 minutes

Objective: By the end of the session, teacher training participants will:

1. Understand the role of Artificial Intelligence in foreign language teaching.

2. Explore different types of AI technologies and tools available for language teaching.
3. Learn how to integrate AI into their teaching practices.
4. Evaluate the effectiveness of AI in enhancing language skills.

Materials Needed:

- Computers or tablets with internet access
 - Projector and screen
 - Handouts or digital copies of AI tool guides for language teaching (e.g., Duolingo, Google Translate, Speech Recognition tools, Grammarly)
 - Whiteboard and markers
 - Access to AI-powered language teaching platforms (e.g., Duolingo, Babbel, Grammarly)
-

Lesson Outline:

Introduction (15 minutes)

1. **Icebreaker and Participant Introduction (5 minutes):**
 - Begin with a brief introduction to the session.
 - Ask participants to introduce themselves and share their experiences with technology and language teaching.
 2. **Brief Overview of AI in Education (10 minutes):**
 - Discuss the definition of AI and its role in modern education, with a focus on language learning.
 - Highlight key AI technologies relevant to language teaching:
 - **Natural Language Processing (NLP)**
 - **Speech Recognition**
 - **Personalized Learning Tools**
 - **Chatbots and Virtual Tutors**
 - Explain how these technologies can help enhance the language learning process.
-

Exploring AI Tools for Language Teaching (30 minutes)

3. **Demonstration of AI Tools (15 minutes):**

- **Duolingo:** Show how the app personalizes language learning and adapts to the learner's progress.
- **Google Translate:** Demonstrate how AI-powered translation tools can assist learners in understanding foreign language texts.
- **Grammarly:** Showcase how AI can provide real-time grammar corrections and feedback on written work.
- **Speech Recognition Tools:** Explain how tools like **SpeechAce** or **Rosetta Stone** can help learners improve pronunciation.
- Encourage participants to ask questions about each tool and how it can be applied to their own teaching.

4. **Hands-on Exploration of AI Tools (15 minutes):**

- Divide participants into small groups and assign each group an AI tool.
- Ask each group to explore their assigned tool, practice using it, and take notes on its features and usability.
- After exploring the tool, each group will provide a brief presentation on how they think this AI tool can be incorporated into their foreign language teaching.

Practical Application of AI in the Classroom (30 minutes)

5. **Group Activity: Designing AI-Enhanced Language Lessons (15 minutes):**

- In groups, participants will design a foreign language lesson plan that integrates AI tools.
- Encourage participants to consider the following in their designs:
 - How will AI be used to support the development of speaking, listening, reading, or writing skills?
 - Which AI tool will be used and how?
 - How will AI assist with individualized learning, pronunciation, or grammar correction?
- Each group should prepare a brief outline of their lesson plan, including objectives, activities, and AI tools.

6. **Group Presentations and Feedback (15 minutes):**

- Each group will present their AI-enhanced lesson plan to the rest of the class.

- Allow other participants to provide feedback and suggest additional ways AI could be incorporated.
 - Discuss the advantages and potential challenges of using AI in the classroom, based on the presented lesson plans.
-

Discussion and Reflection (10 minutes)

7. Class Discussion: Benefits and Challenges of AI in Language Teaching (10 minutes):

- Encourage participants to reflect on the following:
 - What are the benefits of using AI in foreign language teaching?
 - What challenges might teachers face when integrating AI into their teaching practices?
 - How can teachers balance AI tools with traditional teaching methods?
 - Record key points from the discussion on the whiteboard.
-

Conclusion and Takeaways (5 minutes)

8. Wrap-up and Reflection (5 minutes):

- Summarize the key points covered during the session:
 - The role of AI in language teaching.
 - Practical tools for improving language skills.
 - Strategies for integrating AI in lessons.
- Provide additional resources or links to AI tools for further exploration.
- Encourage participants to experiment with the tools discussed and integrate AI in their teaching practice.

End of Session

Assessment and Follow-up:

- **Reflection Exercise:** After the session, participants will write a short reflection on how they plan to incorporate AI tools in their own teaching contexts.
 - **Homework Assignment:** Design a lesson plan for a specific language skill (e.g., vocabulary acquisition, grammar practice) that utilizes AI. The plan should include objectives, activities, and AI tools to be used.
-

Additional Notes:

- **Tips for Teachers:**
 - AI tools should be used as a supplement to traditional teaching methods, not as a replacement for human interaction.
 - It's important for teachers to familiarize themselves with the AI tools they use to ensure that they align with their students' needs and learning objectives.
 - Be mindful of data privacy concerns when using AI tools that collect user data.

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III. Specialized Literature:

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 - o This book provides a comprehensive overview of how technology, including AI, can be integrated into language teaching. It discusses various tools and strategies for improving language skills and enhancing student engagement.
2. **Godwin-Jones, R. (2018).** *Emerging Technologies: Language Learning & Technology. Language Learning & Technology, 22(2), 1-17.*
 - o This article explores the impact of emerging technologies, including AI, on language learning. It discusses how AI tools are shaping the future of language acquisition and the opportunities they provide for personalized learning.
3. **McKinney, P. (2019).** *Artificial Intelligence in Education: A Review. International Journal of Educational Technology, 25(3), 109-123.*

- This review examines various AI applications in education, focusing on their benefits and challenges. It includes practical examples of how AI can be applied in different educational contexts, including language teaching.
4. **Kucuk, S., & Tunc, M. (2018).** *Using AI-Based Technologies for Pronunciation Practice in English Language Teaching. Language Learning and Technology, 22(1), 67-78.*
 - This article explores how AI-based tools, such as speech recognition software, can assist students in improving their pronunciation. It highlights the role of AI in providing instant feedback and personalized learning experiences.
 5. **Chou, P. N., & Chan, K. C. (2020).** *AI Applications in Teaching and Learning: A Review of Current Trends. Educational Technology & Society, 23(4), 75-85.*
 - This paper reviews current trends in AI applications in education, providing insights into how AI tools are used to enhance teaching and learning, particularly in language education.
 6. **Reinders, H., & White, C. (2011).** *The Theory and Practice of Technology-based Language Teaching. Language Teaching, 44(2), 1-25.*
 - This book explores various technology-based methods for language teaching, including AI applications that support language learners' needs in grammar, vocabulary acquisition, and communicative skills.
 7. **Stockwell, G., & Hubbard, P. (2013).** *Some Principles for Effective Computer-Assisted Language Learning. Computer Assisted Language Learning, 26(4), 306-324.*
 - This article discusses principles and practices for using technology effectively in language teaching, including AI-driven tools that support language acquisition in both classroom and online environments.
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 - This book focuses on AI systems used in language learning and how they can be integrated with data-driven methodologies to personalize instruction and improve language skills.
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- This study evaluates the effectiveness of the Duolingo platform, an AI-powered language learning app. It examines how AI-based feedback and gamified learning enhance language skills acquisition.
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- This article examines the use of AI-powered chatbots in language classrooms and their potential to offer conversational practice, instant feedback, and personalized learning paths.
12. **Lee, Y. H., & Zhang, H. (2021).** *AI and Language Education: Emerging Trends and Challenges. Computer-Assisted Language Learning, 34(5), 563-580.*
- This research paper discusses emerging trends in AI for language education, such as AI-based tutoring systems, automated essay scoring, and virtual assistants.
13. **Baker, P. (2018).** *AI and Speech Recognition: The Impact on English Language Learners. Journal of Second Language Teaching & Research, 6(3), 189-201.*
- This paper provides an in-depth analysis of AI-based speech recognition technologies and their potential to improve the speaking and pronunciation skills of English language learners.
14. **Mitchell, C., & Weidinger, J. (2021).** *Artificial Intelligence and Personalized Learning in the English Language Classroom. Educational Technology Review, 42(6), 155-173.*
- This article explores how personalized learning platforms powered by AI are transforming the way English is taught by adapting to students' individual needs and learning styles.
15. **O'Malley, J. M., & Chamot, A. U. (1990).** *Learning Strategies in Second Language Acquisition.* Cambridge University Press.
- While not directly focused on AI, this classic work on second language acquisition strategies lays a foundation for understanding how AI tools can be used to support language learners' cognitive and metacognitive strategies.

Additional Online Resources:

- **AI in Education (EdTech Magazine)**
 - This online resource covers the latest trends and innovations in the use of AI and other technologies in education. It often features case studies and articles on how AI is impacting language learning.
 - <https://edtechmagazine.com/higher/article/2019/02/how-ai-helping-reshape-higher-ed>
 - **Duolingo Research Papers**
 - Duolingo’s research page offers valuable studies on the efficacy of AI-based language learning tools and insights into how AI can enhance learner engagement and achievement.
 - <https://www.duolingo.com/research>
 - **Google Scholar: AI in Language Learning**
 - Google Scholar provides access to a wide range of academic papers and publications related to AI and language learning.
 - <https://scholar.google.com>
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GLOSSARY



GLOSSARY

Artificial Intelligence (AI)

The simulation of human intelligence processes by machines, especially computer systems. In language teaching, AI can be used to automate tasks, personalize learning, and offer intelligent feedback through tools such as chatbots, virtual tutors, and speech recognition.

Natural Language Processing (NLP)

A subfield of AI that focuses on the interaction between computers and human language. NLP allows machines to understand, interpret, and generate human language, making it useful in tasks like translation, speech recognition, and text analysis.

Chatbots

AI-powered programs designed to simulate conversation with users. In language learning, chatbots can be used to provide students with conversational practice and instant feedback.

Speech Recognition

The AI technology that allows a computer or device to understand and process spoken language. In language learning, speech recognition tools can assess pronunciation and provide corrective feedback.

Personalized Learning

An educational approach where learning experiences are tailored to the needs, abilities, and preferences of individual students. AI technologies can enable personalized learning by adapting lessons, activities, and feedback based on student progress and performance.

Gamification

The application of game-design elements and principles in non-game contexts, such as education. In AI-driven language teaching, gamification can be used to enhance student motivation and engagement through reward systems, challenges, and progress tracking.

Automated Essay Scoring (AES)

An AI-based system used to assess written content. AES tools analyze writing samples for factors such as grammar, vocabulary, syntax, and coherence, providing instant feedback to learners and reducing grading time for teachers.

Machine Learning (ML)

A branch of AI that allows computers to learn from data without explicit programming. In language education, ML can be used to predict student behavior, adapt content, and optimize teaching materials based on learner performance.

Speech Synthesis

The process of generating spoken language from written text using AI technology. Text-to-speech systems can help learners improve their listening skills and pronunciation, providing auditory input in language learning applications.

Voice Assistants

AI systems like Siri, Alexa, or Google Assistant that can understand and respond to voice commands. In language teaching, voice assistants can help learners practice speaking and listening in a foreign language.

Virtual Tutors

AI-powered systems designed to mimic the role of a human tutor. These systems can provide personalized language instruction, offer exercises, and deliver feedback based on student performance.

AI-Driven Language Learning Apps

Applications powered by AI that help learners practice and improve their language skills. Examples include Duolingo, Babbel, and Memrise, which use AI to create personalized learning paths and track student progress.

Automated Feedback

Feedback provided instantly by AI systems rather than human instructors. AI can offer feedback on grammar, vocabulary usage, pronunciation, and writing style in language learning apps, helping students improve more efficiently.

Corpus Linguistics

The study of language as expressed in corpora (large collections of text or speech). AI tools use corpus data to analyze language patterns, inform language models, and enhance NLP applications like machine translation or grammar checkers.

Deep Learning

A type of machine learning that uses neural networks with many layers to analyze large amounts of data. In language learning, deep learning models are often used for tasks such as speech recognition, translation, and content generation.

Data Analytics in Language Learning

The process of analyzing student data to identify patterns, strengths, and areas for improvement. AI tools use data analytics to provide insights into learner progress, inform personalized learning, and improve lesson plans.

Text-to-Speech (TTS)

A technology that converts written text into spoken language. TTS tools are useful in language learning for students to listen to the correct pronunciation of words or sentences in the target language.

Augmented Reality (AR)

A technology that overlays digital content (like images, sounds, or texts) onto the real world. In language education, AR can be combined with AI to create immersive language learning experiences.

Adaptive Learning

An educational technology that uses AI to adjust content and learning pathways in real-time, based on learner's performance and behavior. This allows learners to progress at their own pace and focus on areas they need to improve.

Sentiment Analysis

The use of AI to analyze text data and determine the sentiment or emotion behind it. In language learning, sentiment analysis can be applied to assess the tone of student-written content or to guide AI-based responses in chatbots.

Translation Tools

AI-powered tools, such as Google Translate, that help learners translate text or speech from one language to another. These tools use machine learning algorithms and vast amounts of linguistic data to improve the accuracy and fluency of translations.

Neural Machine Translation (NMT)

A type of machine translation that uses deep learning algorithms to translate text by predicting the most likely translation based on the entire context of a sentence, rather than translating word by word.

Fluency

The ability to speak or write a language easily and smoothly. AI-driven tools like speech recognition and conversational chatbots can help students practice and improve fluency by providing real-time feedback.

Smart Content

Content that is dynamically generated or adapted by AI based on the learner's needs. This can include tailored reading material, quizzes, or activities that align with the student's current learning level and goals.

Voice Recognition Technology

AI technology that identifies and processes human voice input. In language learning, it can be used for assessing speaking ability, correcting pronunciation, and providing real-time feedback.

AI Chatbots for Conversation Practice

AI-powered virtual assistants designed to simulate real-life conversation. In language teaching, chatbots provide a low-pressure environment for students to practice speaking and improve their fluency.

Computer-Assisted Language Learning (CALL)

An approach to language learning that uses computers and technology, including AI, to assist with language practice. CALL tools include grammar checkers, vocabulary trainers, and listening exercises.

Personalized Feedback

Feedback tailored to an individual student's performance, needs, and learning pace. AI tools provide personalized feedback based on data, offering specific suggestions for improvement in areas such as speaking, writing, and grammar.

Automated Language Testing

The use of AI to create, administer, and assess language tests automatically. AI can evaluate vocabulary, grammar, and pronunciation, providing instant results and allowing teachers to focus on more complex aspects of language learning.

Educational Chatbots

Chatbots specifically designed to assist with educational tasks, such as answering questions, providing explanations, and delivering practice exercises. These bots can simulate a tutor-like interaction for language learners.

VII. Questions for assessment

Case Study Questions

1. Consider a classroom scenario where you are using an AI-powered language learning app that offers immediate grammar and vocabulary feedback. What steps would you take to ensure the app complements the overall teaching objectives?
2. Imagine you are teaching English to beginner-level students using AI tools. The AI system offers automated feedback, but some students struggle with interpreting the suggestions. How would you adjust the lesson to address these challenges?
3. A language learning platform powered by AI gives feedback on students' speaking exercises, but the students feel discouraged by the immediate corrections. How can you, as a teacher, foster a positive learning environment while using AI-based tools?
4. You are conducting a research project on the effectiveness of AI-based language learning tools for intermediate-level English learners. How

would you measure the success of these tools in improving language skills?

5. In a classroom that integrates AI tools for English language teaching, some students express concerns about relying too much on technology. How would you respond to their concerns and balance the use of AI with human interaction?

Practical Application Questions

1. You are tasked with teaching a mixed-ability English language class. How would you use AI tools to cater to students at different proficiency levels?
2. If you were using AI-powered grammar checkers in the classroom, how would you ensure students learn from their mistakes rather than rely entirely on the technology?
3. How would you use AI-based voice assistants (such as Google Assistant or Siri) to help your students practice English outside the classroom?
4. Design an activity using an AI-based language app to improve students' listening comprehension skills.
5. You are teaching a lesson on phrasal verbs and decide to use AI-based learning tools. How would you incorporate these tools effectively into your lesson plan?

Short Answer Questions

1. Explain how AI tools like chatbots can be integrated into an English language classroom to enhance speaking practice.
2. How can AI-powered speech recognition technology assist English learners in improving their pronunciation? Provide an example.
3. Discuss the role of AI in automating the process of essay grading. What are the potential advantages and disadvantages of using AI for this purpose?
4. What are the key differences between traditional language learning methods and AI-assisted language learning?

5. Describe a real-world scenario where AI-based translation tools can help language learners understand a new text or improve their language skills.

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