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**SUN'YIY INTELLEKTNING TIBBIY TA'LIMNI TRANSFORMASIYA QILISHDA
GIENERATIV ROLI**

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Annotatsiya: Sun'iy intellekt (SI) texnologiyalarining tibbiy oliv o'quv yurtlarida lotin va ingliz tillari bo'yicha o'qitishda integratsiyasi, tibbiy ta'linda transformatsion rivojlanishni anglatadi. SI texnologiyalari, jumladan tabiiy tilni qayta ishlash (NLP), moslashuvchan o'qitish platformalari va real vaqtda tarjima tizimlari talabalarning tibbiy terminologiyani qabul qilishini yaxshilashga, tanqidiy tafakkurni rivojlantirishga va professional kommunikativ ko'nikmalarni oshirishga yordam beradi. Til to'siqlarini yengish va o'qitishda individual yondoshuv usullari, ushbu tillarni an'anaviy o'qitishni boyitadi. Biroq, SI texnologiyalarini joriy etish, ma'lumotlar maxfiyligi, texnologiyalarga kirish imkoniyati va etika bilan bog'liq muammolarni hal qilishni talab qiladi. Ushbu tadqiqot, tibbiy ta'linda SI potensialining inqilobiylarini va texnologiyalarni an'anaviy pedagogik yondoshuvlar bilan birlashtirish zarurligini ta'kidlaydi, bu esa adolatli va samarali ta'lim natijalarini ta'minlashda muhim ahamiyat kasb etadi.

Kalit so'zlar: sun'iy intellekt, tibbiy ta'lim, lotin tili, ingliz tili, tabiiy tilni qayta ishlash, tibbiy terminologiya, individual o'qitish, til kompetensiyasi, tanqidiy tafakkur, etik jihatlar, professional kommunikatsiya

Kirish

Sun'iy intellekt (SI) texnologiyalarining tibbiy ta'limga integratsiyasi, sog'liqni saqlash sohasidagi kelajak mutaxassislarini tayyorlashda transformatsion yondoshuvni taqdim etadi. SI innovatsion vositalarni taqdim etadi, bu esa o'qish jarayonini yaxshilaydi, klinik qarorlar qabul qilish ko'nikmalarini rivojlantiradi va ma'muriy vazifalarni soddalashtiradi. Tibbiy oliv o'quv yurtlarida lotin va ingliz tillarini o'rgatish kontekstida SI texnologiyalari, talabalarga moslashuvchan o'quv muhitlari, kengaytirilgan tilni qayta ishlash imkoniyatlari va avtomatik fikr-mulohazalar tizimlarini taqdim etadi. Ushbu funktsiyalar, ayniqsa tibbiy terminologiyani o'rganish, professional kommunikatsiyalarni rivojlantirish va ko'p tilli tibbiy muassasalarda til to'siqlarini yengishda foydalidir. Raqamli vositalarning tibbiy ta'linda qo'llanilishining o'sishi bilan, SI roli, nafaqat kognitiv, balki amaliy ko'nikmalarini shakllantirishda ham ajralmas ahamiyatga ega bo'lib, talabalarni zamonaliv sog'liqni saqlash tizimlarining talablariga tayyorlashni ta'minlaydi.

Asosiy qism

1. SI ning tibbiy oliv o'quv yurtlarida til o'rgatishdagi roli

SI asosida ishlovchi vositalar, masalan, tabiiy tilni qayta ishlash (NLP) dasturlari, lotin va ingliz tilidagi matnlarni tahlil qilib, tibbiy etimologiya va terminologiya bo'yicha ma'lumotlar taqdim etishi mumkin. Ushbu vositalar talabalarga murakkab atamalarni

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yechishda yordam beradi, ularning lotin ildizlarini tushunib, eslab qolish va qabul qilishni osonlashtiradi. Masalan, SI asosidagi platformalar, masalan, chat-botlar va virtual repetitorlar, tezkor tarjimalar, talaffuz bo'yicha tavsiyalar va kontekstual tushuntirishlarni taqdim etadi, bu esa tibbiy tilni o'rganish jarayonini soddalashtiradi. Bundan tashqari, moslashuvchan o'quv tizimlari talabalarning malaka darajasiga qarab kontentni tanlaydi, bu esa shaxsiylashtirilgan va samarali o'qish jarayonini ta'minlaydi.

2. SI tibbiy ta'linda til to'siqlarini yengishda

Ko'p tilli tibbiy muhitlarda samarali kommunikatsiya nihoyatda muhimdir. SI texnologiyalari real vaqtida tarjima va transkriptsiya tizimlari yordamida lotin, ingliz va boshqa tillar o'rtasida o'tishni osonlashtiradi. Ushbu vositalar nafaqat talabalarga tibbiy matnlarni osonroq tushunishga yordam beradi, balki ularni xalqaro hamkorlikka tayyorlaydi. Misol uchun, SI asosidagi platformalar, shifokor va bemor o'rtasidagi muloqotni simulyatsiya qilib, talabalarga tibbiy muloqotlarni lotin va ingliz tillarida amaliyat qilish imkoniyatini beradi, bu esa turli tillarda bemorlar va hamkasblar bilan muloqot qilish uchun til kompetensiyasini rivojlantiradi.

3. SI ning tanqidiy tafakkur va diagnostik ko'nikmalarni rivojlantirishdagi roli

SI simulyatsiyalarini va virtual reallik (VR) texnologiyalarini taqdim etadi, bu erda talabalar o'zlarining tibbiy bilimlarini klinik holatlarda qo'llashlari mumkin. Ushbu texnologiyalar, masalalarni hal qilish va qarorlar qabul qilish imkoniyatlarini taqdim etib, tanqidiy tafakkurni rivojlantiradi. SI vositalarining til o'rgatishda integratsiyasi o'qituvchilarga tibbiy terminologiyani aniq tushunishning diagnostika va davolash rejasiga qanday ta'sir qilishini namoyish qilish imkoniyatini beradi. Bundan tashqari, SI asosidagi fikr-mulohaza tizimlari real vaqtida xatolarni aniqlaydi, bu esa talabalarga til va klinik mulohazalarni yaxshilashga yordam beradi.

4. Muammolar va etik jihatlar

Ko'plab afzallikkarga qaramay, SI texnologiyalarining tibbiy ta'limga kiritilishi bir qator muammolarga olib keladi. Ma'lumotlar maxfiyligi, texnologiyalarga kirish imkoniyati va SI ga haddan tashqari tayanish bilan bog'liq muammolarni hal qilish zarur. O'qituvchilar, SI vositalari an'anaviy o'qitish metodlarini to'ldirish, lekin ularni almashtirish emasligini ta'minlashi kerak, chunki insoniy faktor tibbiy ta'linda muhim ahamiyatga ega. Texnologik yutuqlar va etik tamoyillarni muvozanatlash, ushbu texnologiyalarni muvaffaqiyatli amalga oshirishning kaliti hisoblanadi.

Xulosa

Sun'iy intellekt (SI) tibbiy oliy o'quv yurtlarida lotin va ingliz tillari o'qituvchilariga innovatsion ta'lim usullari taklif etib, til kompetensiyasini va professional kommunikatsiyani rivojlantirishda muhim rol o'ynaydi. SI ning shaxsiylashtirilgan o'quv tajribalari, real vaqtida fikr-mulohazalar va klinik holatlarda bilimlarni qo'llash imkoniyatlari o'quv jarayonini sezilarli darajada boyitadi. Biroq, SI ning joriy etilishi ehtiyyotkorlik bilan amalga oshirilishi zarur, chunki bu jarayon etik masalalar, shu jumladan tenglik va kirish imkoniyatlarini ta'minlashni talab qiladi. SI va an'anaviy o'qitish usullarining sinergiyasi tibbiyot amaliyoti uchun zarur bo'lgan til va kognitiv

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ko'nikmalarni rivojlantirishda mustahkam asos yaratadi. Tibbiy ta'limning rivojlanishi va global sog'liqni saqlash tizimlarining texnologik jihatdan o'sishi bilan, SI ning strategik va o'yab joriy etilishi, talabalarni zamonaviy sog'liqni saqlash tizimining yuqori talablariga tayyorlashda muhim rol o'ynaydi.

FOYDALANILGAN ADABIYOTLAR:

1. Obidovna, D. Z. (2022). GENDER DIFFERENTIATION OF MASCULINE AND FEMININE VERBALIZATION. *European International Journal of Multidisciplinary Research and Management Studies*, 2(05), 59-65.
2. Djalilova, Z. O. (2021). Studies on gender linguistics in the field of Uzbek language. *Academic research in educational sciences*, 2(3), 391-397.
3. Obidovna, D. Z., & Denis, S. (2021). Formulas of speech etiquette in a gender-engineered communication strategy. *Central asian journal of theoretical & applied sciences*, 2(6), 5-11.
4. Obidovna, D. Z. (2021). Comparative Analysis Of Uzbek Men's And Women's Speech Through The Prism Of Gender Linguistics. *Central Asian journal of literature, philosophy and culture*, 2(2), 22-26.
5. Obidovna, D. Z. (2022). Speech Behavior and its Gender Specificity on the Basis of the Main English Language Variants. *Middle European Scientific Bulletin*, 22, 199-205.
6. Obidovna, D. Z. (2021). Gender issues in foreign theoretical linguistics: concerning the history of the issue. *Gender issues*, 7(6).
7. JALILOVA, Z. O. (2021, March). ON THE FORMATION OF THE LANGUAGE OF SCIENTIFIC LITERATURE IN THE HISTORY OF THE ENGLISH LANGUAGE. In *E-Conference Globe* (pp. 18-22).
8. Jalilova, Z. O. (2020). Concerning the issue of terms, having a place with various morphological classes (in view of the example of the terminological arrangement of social action). *Новый день в медицине*, (4), 501-503.
9. Djalilova, Z. O., Juraev, S. S., & Kosimov, S. M. (2021). LATIN AS A PROFESSIONAL LANGUAGE OF MEDICAL WORKERS. *Международный научно-практический электронный журнал «МОЯ ПРОФЕССИОНАЛЬНАЯ КАРЬЕРА»*. Выпуск № 23 (том 1)(апрель, 2021). Дата выхода в свет: 30.04. 2021., 79.
10. Джалилова, З. О., Хасанов, К. А., & Султонов, А. А. (2021). Роль научного управления в процессе обучения высококвалифицированных врачей в новом Узбекистане. *Молодой ученый*, (26), 377-379.
11. Dzhalilova, Z. O. (2021). The Latin language's international status. *Молодой ученый*, (41), 32-34.
12. Dzhalilova, Z. O., & Mirfajziev, K. (2021). Latin as the language of medicine. *Молодой ученый*, (41), 35-37.
13. Dzhalilova, Z. O., Izomova, S. G., & Ahmedova, G. A. (2021). Intercultural communication and the Latin language. *Молодой ученый*, (24), 398-400.
14. Dzhalilova, Z. O. (2021). History of formation of Latin language. *Молодой ученый*, (41), 34-35.

Date: 13thDecember-2024

15. Obidovna, D. Z. (2022). GENDER SPEECH BEHAVIOR IN THE CONTEXT OF THE SOCIO-LINGUISTIC FACTOR. *Web of Scientist: International Scientific Research Journal*, 3(6), 190-198.
16. Dzhalilova, Z. O., Hajdarova, N. S., & Tashpulatova, N. A. (2021). Latin in the Contemporary World. *Молодой ученый*, (24), 400-402.
17. Djalilova, Z. (2022). POLITENESS IN WOMEN'S DISCOURSE IN ENGLISH AND UZBEK LANGUAGES. *Academic research in modern science*, 1(11), 29-34.
18. Джалилова, З. (2022). РЕАЛИЗАЦИЯ МАКСИМ ВЕЖЛИВОСТИ В АНГЛИЙСКОМ И УЗБЕКСКОМ ДИАЛОГАХ. *Zamonaviy dunyoda innovatsion tadqiqotlar: Nazariya va amaliyot*, 1(21), 22-33.
19. Obidovna, D. Z. (2022). A Speech Etiquette Formula for the Gender Communication Strategy. *American Journal of Social and Humanitarian Research*, 3(10), 44-50.
20. Djalilova, Z. (2022). DISCURSIVE ELEMENTS AND THE CATEGORY OF POLITENESS. *Academic research in modern science*, 1(12), 8-14.
21. Джалилова, З. О. (2022). НУТҚ ҲАРАКАТЛАРИДА ХУШМУОМАЛАИКНИНГ ГЕНДЕР ХУСУСИЯТЛАРИ. *МЕЖДУНАРОДНЫЙ ЖУРНАЛ ИСКУССТВО СЛОВА*, 5(5).
22. Obidovna, D. Z. (2022). DISTINCTIVE FEATURES OF MALE AND FEMALE ORAL SPEECH IN MODERN ENGLISH. *International Journal Of Literature And Languages*, 2(10), 14-21.
23. Obidovna, D. Z. (2022). THE MAIN CONCEPTS OF POLITENESS IN MODERN LINGUOPRAGMATICS: THE POLITENESS PRINCIPLE BY J. LEECH. *International Journal of Pedagogics*, 2(11), 15-20.
24. Djalilova, Z. (2022). GENDER DIFFERENTIATION OF DISCOURSE ELEMENTS AS INDICATORS OF POSITIVE AND NEGATIVE EVALUATIONS. *International Bulletin of Applied Science and Technology*, 2(12), 55-63.
25. Djalilova, Z. (2022). GENDER-DETERMINED DIFFERENCES IN THE SPEECH OF LITERARY CHARACTERS. *Eurasian Journal of Academic Research*, 2(12), 210-215.
26. Djalilova, Z. (2022). GENDER ELEMENT OF SPEECH BEHAVIOR FROM THE POSITION OF TEXT ORGANIZATION MECHANISMS. *Eurasian Journal of Academic Research*, 2(13), 274-281.
27. Джалилова, З. (2022). ПРАГМАТИЧЕСКИЙ ВЗГЛЯД НА МЕЖЛИЧНОСТНОЕ ОБЩЕНИЕ. *Zamonaviy dunyoda ilm-fan va texnologiya*, 1(7), 331-336.
28. Djalilova, Z. (2022). GENDER XUSHMUOMALALIKKA ASOSLANGAN IBORALARNING SHAKLLANISHI. *Zamonaviy dunyoda innovatsion tadqiqotlar: Nazariya va amaliyot*, 1(28), 303-308.
29. DZHALILOVA, Z. O., & UBAJDULLOEV, A. U. U. COMPARISON DEGREES OF ADJECTIVES IN LATIN LANGUAGE. *МОЛОДОЙ УЧЕНЫЙ* Учредители: ООО "Издательство Молодой ученый", (52), 336-338.

Date: 13thDecember-2024

30. DZHALILOVA, Z. O., & JAKUBOV, U. S. NUMBERS IN LATIN LANGUAGE. МОЛОДОЙ УЧЕНЫЙ Учредители: ООО "Издательство Молодой ученый", (52), 339-341.
31. DZHALILOVA, Z. O., & ALIEV, M. N. ADJECTIVE IN LATIN LANGUAGE. МОЛОДОЙ УЧЕНЫЙ Учредители: ООО "Издательство Молодой ученый", (52), 332-334.
32. DZHALILOVA, Z. O., & ALIEV, M. N. PRONOUNS IN LATIN LANGUAGE. МОЛОДОЙ УЧЕНЫЙ Учредители: ООО "Издательство Молодой ученый", (52), 334-336.
33. DJALILOVA, Z. O., & KHAYOTOV, K. M. K. U. LATIN PRONOUNS. МОЛОДОЙ УЧЕНЫЙ Учредители: ООО "Издательство Молодой ученый", (53), 257-258.
34. DJALILOVA, Z. O., & KHAYOTOV, M. K. U. VERBS IN LATIN LANGUAGE. МОЛОДОЙ УЧЕНЫЙ Учредители: ООО "Издательство Молодой ученый", (53), 255-257.
35. Djalilova, Z. O. (2023). A DISCOURSIVE TURN IN THE THEORY OF LINGUISTIC POLITENESS: TO THE FORMATION OF THE THEORY OF LINGUISTIC IMPOLITENESS. *International Journal Of Literature And Languages*, 3(02), 15-23.
36. Djalilova, Z. (2023). PEDAGOGICAL EDUCATIONAL TECHNOLOGY: ESSENCE, CHARACTERISTICS AND EFFICIENCY. *Академические исследования в современной науке*, 2(23), 29-38.
37. Djalilova, Z. (2023). THE SIGNIFICANCE AND POSITION OF TEACHING METHODS IN PROFESSIONAL TRAINING. *Solution of social problems in management and economy*, 2(10), 31-42.
38. Djalilova, Z. (2023). THE USE OF LATIN TERMINOLOGY IN MEDICAL CASE. *Академические исследования в современной науке*, 2(14), 9-15.
39. Джалилова, З. (2023). The notion of illocution in the theory of speech acts by John Austin. *Современные тенденции при обучении иностранному языку в XXI веке*, 1(1).
40. Obidovna, D. Z. (2023). ADAPTING TEACHING METHODS TO MODERN EDUCATIONAL TRENDS: PEDAGOGICAL ASPECT. *International Journal of Pedagogics*, 3(10), 72-77.
41. Djalilova, Z. (2023). LANGUAGE LEARNING STRATEGIES AND THEIR IMPLICATION FOR TEACHING ENGLISH. *Центральноазиатский журнал образования и инноваций*, 2(11), 18-22.
42. Obidovna, D. Z., & Sulaimonovich, D. S. (2023). Influence of the Mode of Work and Recreation of the Student's Health. *INTERNATIONAL JOURNAL OF HEALTH SYSTEMS AND MEDICAL SCIENCES*, 2(3), 3-5.
43. Obidovna, D. Z., & Sulaymonovich, D. S. (2023). Forming a Healthy Lifestyle for Students on the Example of the Volleyball Section in Universities. *EUROPEAN JOURNAL OF INNOVATION IN NONFORMAL EDUCATION*, 3(3), 22-25.
44. Obidovna, D. Z., & Sulaymonovich, D. S. (2022). Physical activity and its impact on human health and longevity. *Достижения науки и образования*, (2 (82)), 120-126.

Date: 13thDecember-2024



45. Obidovna, D. Z., & Sulaymonovich, D. S. (2022). THE CONCEPT OF "HEALTHY LIFESTYLE" IN PSYCHOLOGICAL RESEARCH. *ResearchJet Journal of Analysis and Inventions*, 3(06), 53-64.
46. Djalilova, Z. (2023). ADVANCING PEDAGOGICAL APPROACHES: LEVERAGING ARTIFICIAL INTELLIGENCE TECHNOLOGIES TO ENHANCE THE INTEGRATION OF ENGLISH AND LATIN LANGUAGE INSTRUCTIONAL METHODS. *International Bulletin of Medical Sciences and Clinical Research*, 3(12), 54-60.
47. Djalilova, Z. (2023). ADVANCING CRITICAL THINKING PROFICIENCY THROUGH OPTIMIZED PEDAGOGICAL APPROACHES. *International Bulletin of Medical Sciences and Clinical Research*, 3(12), 61-67.
48. Djalilova, Z. (2023). IMPROVING METHODOLOGIES FOR INTEGRATIVE ENGLISH AND LATIN LANGUAGE TEACHING USING ARTIFICIAL INTELLIGENCE TECHNOLOGIES. *Центральноазиатский журнал образования и инноваций*, 2(12 Part 2), 29-34.
49. Djalilova, Z. (2023). ELEVATING CRITICAL THINKING WITH EFFICIENT TEACHING METHODS (GEARED TOWARDS MEDICAL STUDENTS). *International Bulletin of Medical Sciences and Clinical Research*, 3(11), 97-102.
50. Obidovna, D. Z. (2023). THE ART OF QUESTIONING: ENHANCING CRITICAL THINKING THROUGH EFFECTIVE PEDAGOGICAL TECHNIQUES. *International Journal Of Literature And Languages*, 3(11), 54-60.
51. Djalilova, Z. O., Tasheva, N. Z., Nematova, Z. T., & Nasrieva, G. Z. (2023). LEXICO-SEMANTIC PECULIARITIES IN MODERN ENGLISH (ANALYZING ITS BOTH LANGUAGE VARIANTS: BRITISH AND AMERICAN ENGLISH ONES). *Journal of Advanced Zoology*, 44(S2), 4433-4445.
52. Obidovna, D. Z. (2024). THE PEDAGOGICAL-PSYCHOLOGICAL ASPECTS OF ARTIFICIAL INTELLIGENCE TECHNOLOGIES IN INTEGRATIVE EDUCATION. *International Journal Of Literature And Languages*, 4(03), 13-19.
53. Джалилова, З., & Эргашева, Ш. (2024). ПСИХОЛОГИЧЕСКИЕ ОСНОВЫ И НАУЧНО-ТЕОРЕТИЧЕСКИЕ ПРИНЦИПЫ ФОРМИРОВАНИЯ ЯЗЫКОВЫХ УСТАНОВОК СТУДЕНТОВ ВЫСШЕГО УЧЕБНОГО ЗАВЕДЕНИЯ. *Журнал академических исследований нового Узбекистана*, 1(2), 116-120.
54. Djalilova, Z. (2024). ADVANCING CRITICAL THINKING PROFICIENCY THROUGH OPTIMIZED PEDAGOGICAL APPROACHES. *Центральноазиатский журнал междисциплинарных исследований и исследований в области управления*, 1(2), 24-29.
55. Djalilova, Z. (2024). ADVANCING PEDAGOGICAL APPROACHES: LEVERAGING ARTIFICIAL INTELLIGENCE TECHNOLOGIES TO ENHANCE THE INTEGRATION OF ENGLISH AND LATIN LANGUAGE INSTRUCTIONAL METHODS. *Центральноазиатский журнал междисциплинарных исследований и исследований в области управления*, 1(2), 19-23.

Date: 13thDecember-2024

56. Djalilova, Z. (2024). APPLICATION OF ARTIFICIAL INTELLIGENCE TECHNOLOGIES IN HISTORY EDUCATION. *Журнал академических исследований нового Узбекистана*, 1(2), 5-11.
57. Djalilova, Z. (2024). ELEVATING CRITICAL THINKING WITH EFFICIENT TEACHING METHODS (GEARED TOWARDS MEDICAL STUDENTS). *Центральноазиатский журнал междисциплинарных исследований и исследований в области управления*, 1(2), 8-12.
58. Джалилова, З. (2024). МЕТОДЫ РАЗРАБОТКИ ТЕХНОЛОГИЙ ИСКУССТВЕННОГО ИНТЕЛЛЕКТА ДЛЯ ИНТЕГРАТИВНОГО ПРЕПОДАВАНИЯ АНГЛИЙСКОГО ЯЗЫКА СТУДЕНТАМ МЕДИЦИНСКИХ ВУЗОВ. *Журнал академических исследований нового Узбекистана*, 1(1), 19-22.
59. Obidovna, D. Z. (2024). UTILIZING INFORMATION TECHNOLOGY TO STRENGTHEN EDUCATION IN LATIN LANGUAGE AND MEDICAL TERMINOLOGY. *PEDAGOG*, 7(5), 72-80.
60. Obidovna, D. Z. (2024). FEATURES OF TERMINOLOGY CONVERSATING THE CONCEPTS OF ARTIFICIAL INTELLIGENCE IN THE ENGLISH LANGUAGE. *American Journal of Philological Sciences*, 4(04), 61-70.