

**METHODS OF USING ARTIFICIAL INTELLIGENCE IN THE STUDY OF
ENGLISH ROMANTICISM.**

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Annotation. *The article examines how artificial intelligence technologies can be used in the study of English Romanticism. English Romanticism is an important period of literature of the 18th and 19th centuries, which presents ideas such as nature, the human psyche, fantasy, and freedom. Artificial intelligence, in particular, through the use of natural language processing, data analysis, and generative models, helps to automate the analysis of romantic works, create new literary works, and gain a deeper understanding of the historical context. The article highlights the possibilities of using AI for methodological and semantic analysis of texts, creating advanced search systems in literary studies, and identifying literary motifs of the Romantic period.*

Key words: *English Romanticism, artificial intelligence, technology, nature, human psyche, fantasy, freedom, natural language processing, data analysis, generative model, romantic work, automation, creation of works, historical context, stylistic, semantic analysis, literary studies, romantic period, literary motifs.*

Аннотация. *В статье рассматривается, как технологии искусственного интеллекта могут быть использованы в изучении английского романтизма. Английский романтизм — важный период литературы XVIII и XIX веков, в котором представлены такие идеи, как природа, человеческая психика, фантазия и свобода. Искусственный интеллект, в частности, посредством использования обработки естественного языка, анализа данных и генеративных моделей, помогает автоматизировать анализ романтических произведений, создавать новые литературные произведения и глубже понимать исторический контекст. В статье освещаются возможности использования ИИ для методологического и семантического анализа текстов, создания расширенных*



поисковых систем в литературоведении и выявления литературных мотивов романтического периода.

Ключевые слова: *английский романтизм, искусственный интеллект, технологии, природа, человеческая психика, фантазия, свобода, обработка естественного языка, анализ данных, генеративная модель, романтическое произведение, автоматизация, создание произведений, исторический контекст, стилистический, семантический анализ, литературоведение, романтический период, литературные мотивы.*

AI technologies also provide students with a more effective and expanded process of studying English Romanticism by providing interactive learning and unique recommendations. This article helps to understand the importance of artificial intelligence in the study of English Romanticism and introduces new approaches and methods in this area.

English Romanticism is a literary movement that emerged in England in the 18th and first half of the 19th centuries, mainly promoting themes such as natural beauty, fantasy, the inner world of man and his connection with nature. The great writers of this period, such as William Wordsworth, Samuel Taylor Coleridge, John Keats, Percy Bysshe Shelley and Lord Byron, laid the foundations of English literature. The study of English Romanticism requires new approaches and methods in many fields, especially in literary studies.

Today, the capabilities of artificial intelligence (AI), especially natural language processing (NLP), data analysis and machine learning technologies, are becoming important tools in the study of English Romanticism. Below is a detailed explanation of how artificial intelligence can be used in the study of English Romanticism.

Automatic Text Analysis and Interpretationю Artificial intelligence, in particular natural language processing (NLP) technologies, can help automate the analysis of works related to English Romanticism. For example, SI algorithms can be



used to analyze poems such as Wordsworth's "Lines Composed a Few Miles Above Tintern Abbey". This analysis can be useful in the following aspects:

Language and style analysis: SI algorithms study poems from a stylistic perspective, including word use, phraseological expressions, rhetorical devices, and form (metaphor, symbolism, alliteration).

Emotional tone and semantic analysis: Sentimental analysis algorithms can be used to analyze the connection between nature and the human psyche. Positive or melancholic moods common in Romanticism can be identified and classified using SI.

Identification of themes and motifs: SI identifies recurring themes in Romantic works, such as elements such as nature, freedom, imagination, and the inner world of man.

Literary Cooking and Creation. Artificial intelligence can be used to create new works of English Romanticism or give new interpretations to existing works.

Generative Models: Using GPT or other generative models, it is possible to create new poems or stories in the Romantic style. This artificial intelligence model can be trained to create new literary works based on certain motifs and language structures of Romanticism.

Creating Literature in Historical Context: By analyzing information about the history, social and political conditions of the Romantic period, artificial intelligence allows us to combine changing culture, philosophy and literature to create new literary works specific to that period.

Advanced Search Technologies in Literary Studies. Artificial intelligence can be used in the process of learning to create advanced search systems in literary studies.

Data processing: Using artificial intelligence, a collection of major works of English Romanticism, their translations and analyses, is analyzed, which allows for a deeper understanding of the literary period under study.

Feature-based search: Using AI, readers or searchers can search for Romantic works based on specific motifs, poetic style, or other features. For example, automatically finding poems describing nature and man.



Historical Analysis and Contextual Analysis. Big data analysis can be performed using artificial intelligence to better understand the historical and cultural context of the Romantic period. The advantage of this method is that.

Historical Analysis: Historical analysis can be carried out using AI to identify the connection between the works of the greatest writers of Romanticism and the socio-economic conditions of the time they wrote.

Literary Connections: Artificial intelligence can help identify connections between, for example, the early representatives of Romanticism and later literary movements (such as Victorian writers).

Analyzing Recurring Motifs and Structure in Works. There are certain structural elements and motifs that are repeated in the Romantic period, such as:

The shift in the boundary between the real and imaginary worlds: With the help of artificial intelligence, this part can be identified and analyzed in Romantic works. By using this element, the reader can see the ambiguity between fantasy and the real world in Romantic poems or works.

The relationship between nature and man: In Romanticism, the reflection of nature and the human spirit, the synthesis and harmony between them are the main motifs. With the help of AI, it is possible to analyze the structure of these works and show the degree of repetition of motifs.

Interactive Learning and Student Support Tools. AI also helps students create interactive tools for studying English Romanticism. This is mainly done in the following forms.

Student-tailored recommendations: With the help of AI, it is possible to provide recommendations based on the interests of students, that is, the most important works of the Romantic period and their interpretations.

Interactive educational programs: Interactive programs based on AI allow students to practice analyzing poetry, prose, or dramatic works.

Using the capabilities of AI in studying English Romanticism offers new approaches and methods in literary studies. Methods such as automatic analysis of texts, creation of new works, study of historical context, identification of motifs and



development of interactive learning systems can be implemented using AI. Artificial intelligence accelerates and expands these processes, providing opportunities for a deeper understanding and analysis of English Romanticism.

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