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### Artificial Intelligence and Literary Criticism: An Exploratory Research Analysis on Computer-Based Approaches to Interpretation

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#### Abstract

Literary criticism has been a human discipline based on personal interpretation, historical background, and philosophical debate. The recent advent of Artificial Intelligence (AI) brings computational approaches into critique that test and redefine standard literary analysis. This research exploration surveys AI's involvement in literary critique by discussing major theoretical approaches drawn from formalism, structuralism, post-structuralism, and distant reading. This research evaluates the competence of AI in literary interpretation grounded on computational stylometry, sentiment analysis, and intertextuality detection, AI affords pattern recognition and large-scale text analysis, but is unable to comprehend the tinge, obscurity, and socio-historical context that creates doubt concerning the future of literary studies. Furthermore, the study assesses AI's competence in detecting intertextual references and uncovering hidden textual patterns across diverse literary traditions by case studies. Beyond technical applications, it examines into the theoretical and philosophical implications of AI-driven criticism, interrogating its influence on meaning, interpretation, and the authority of the literary critic. According to this paper, AI can be used as a counterpart but not a substitute or replacement for human literary criticism.

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**Keywords:** Artificial Intelligence, Computational Analysis, Stylometry, Sentiment Analysis, Intertextuality, Formalism, Structuralism, Post-Structuralism, Distant Reading, Interpretation, Literary Theory.

Artificial Intelligence has revolutionized literary criticism through computational approaches that strengthen textual analysis, authorship attribution, and intertextual studies. AI can process large literary datasets, detect patterns, generate objective, and data-based elucidations. These functions can be bout with formalist and structuralist practices, that arrange textual structures, linguistic patterns, and stylistic features. When challenged with ambiguity, symbolism, and socio-historical context, AI result in committing falters where the domains where post-structuralist, feminist, and postcolonial criticism, that draws on human instinct and background knowledge. While it may be effective when AI is not skilled with the depth of interpretation and logical intervention that are required to know literature and literary criticism.

#### Aims and Objectives

This research investigates AI's effectiveness in stylistic and thematic analysis, particularly in authorship attribution and literary trend identification, to determine its contributions to literary scholarship. Finally, the study determines whether or not AI belongs to current critical methodologies or requires a fresh approach to literary interpretation in view of its potential as either an analytic tool or a revolutionizing agent in literary analysis.

#### Methodology

This research employs a theoretical and computational methodology by unification of conventional literary criticism and AI-powered analysis.

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#### 1. Literary Criticism and the Role of AI in Textual Analysis

Literary criticism has been shaped by different theoretical frameworks, by providing variable methods of textual understanding. Formalism and Structuralism highlight the internal structure of the texts (Shklovsky 12; Saussure 65), Post-Structuralism and Deconstruction highlight the undecidability of language with multiple meanings (Derrida 11; Barthes 146), innovative methods such as Distant Reading and Computational Criticism that employ large-scale data analysis to recognize literary patterns (Moretti 57). The advent of artificial intelligence (AI) in literary interpretation has brought both chances as opportunities and trials as challenges concerning these paradigms. AI is better to detect textual structures and patterns (Underwood 102; Jockers 78), but it is difficult in interpreting ambiguity, irony, and socio-cultural meanings on a deeper level. This paper examines the relationship between AI and these critical approaches, where its strengths and weaknesses are revealed.

Russian Formalism holds that the meaning of a literary text is embedded in its formal features, not in historical or biographical context (Eichenbaum 38). Formalist critics examine the narrative strategies, literary tropes, and linguistic patterns to comprehend how texts work independently. Structuralism, stresses the underlying structures of language and narrative, that deals with texts as part of larger semiotic systems (Saussure 70; Lévi-Strauss 92).

AI frameworks fit these theories well by identifying patterns of text, syntax, and repeating motifs. NLP allows AI to dissect sentence structure, identify literary devices, and trace narrative templates (Jockers 83). Analytic devices like stylometric analysis and text mining deliver information on diction, meter, and syntactic trends through vast literary datasets with formalist principles on an industrial scale (Burrows 120). Structuralist concepts such as binary oppositions, archetypal patterns, and semiotic codes are also computationally representable (Culler 95). Yet, the statistical method of AI and the patterns it recognizes hold back its capability to decode texts in

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terms of anything other than their structure. AI successfully measures formal properties but misses the critical intuition to recognize subtext, irony, and the historical development of literary forms (Underwood 108). Post-Structuralist critics such as Jacques Derrida and Roland Barthes oppose the idea of stable meanings, contending that language is unstable and capable of multiple meanings (Derrida 13; Barthes 152).

Machine learning systems are based on probabilistic models that tend to support dominant meanings instead of working with linguistic instability (Bode 65). AI tool is incapable of grasping intertextuality as a human critic would, and hence cannot exploit Derrida's difference or Barthes' notion of the "death of the author" (Derrida 20; Barthes 158). Although AI may identify the patterns in texts indicating ambiguity, it is unable to engage in full deconstructionist readings that challenge textual authority and codified meanings (Rockwell and Sinclair 50).

Literary criticism draws heavily on close reading, careful, detailed attention to single texts (Brooks 88). The distant reading formulated by Franco Moretti instead considers broad-scale literary study employing digital computation (Moretti 63). AI-generated distant reading provides scholars with access to reading tens of thousands of texts to consider historical tendencies, genre developments, and transformations of stylistic usage (Jockers 90). However, distant reading's emphasis on quantifiable data often overlooks the subjective, emotional, and cultural dimensions of literature (Moretti 75). AI is weak at context-based interpretation, and although it has the ability to recognize broad textual patterns, it is unable to substitute the richness of close reading carried out by human scholars (Hope and Witmore 210). The problem is in combining AI-generated analysis with conventional interpretive techniques to formulate a more enhanced approach towards literary studies (Rockwell and Sinclair 55).

AI's application in literary criticism aligns most naturally with formalist and structuralist methodologies, given its proficiency in pattern recognition and structural analysis (Burrows 130). However, it faces significant challenges

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when applied to post-structuralist and deconstructive frameworks, which emphasize linguistic instability and interpretative flexibility (Derrida 22; Barthes 162). While distant reading and computational criticism reveal the promise of AI for mass literary analysis, they also demonstrate its limitations in detecting irony, subtlety, and historical context (Underwood 125). While AI can be a useful tool for literary scholars, its limitations point to the ongoing need for human interpretation (Bode 85). The merging of AI with conventional literary methods brings both new opportunities and profound challenges, which will define the future of literary criticism in the digital age.

### 2. AI- Driven Literary Analysis

The incorporation of artificial intelligence (AI) into literary analysis has introduced new paths for textual examination, yielding information about authorship, sentiment, and intertextual connections. AI-driven applications can recognize stylistic characteristics, determine emotional trends, and follow intertextual allusions in extensive literary databases.

### i. Stylometry and Authorship Attribution

Stylometry, the quantitative analysis of writing style, has been among the most successful uses of AI in literary analysis. Through the examination of linguistic patterns, syntax, word frequencies, and other stylistic indicators, AI models can identify an author's distinctive writing signature and assign disputed texts to their probable authors. This approach has helped solve longstanding authorship controversies, including those involving Shakespeare's plays and the Federalist Papers (Burrows 85; Jockers 92).

Authorship attribution using AI depends on machine learning models trained on works by an author. These models scrutinize stylistic coherence between several works and find patterns that the human mind cannot discover. For example, scholars have utilized stylometric analysis to establish that some parts of The Federalist Papers were authored by James Madison and not Alexander Hamilton (Mosteller and Wallace 110). Likewise, AI has been used to fuel arguments on the Shakespearean authorship issue, in favor

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of the assertion that certain plays that have been traditionally assigned to Shakespeare were co-authored by Christopher Marlowe (Hope and Witmore 204). Even with its advantages, AI-based stylometry is limited. Although it excels at processing formal aspects such as word selection and sentence structure, it falters at contextual and thematic levels.

#### Sentiment Analysis in Literary Works

Sentiment analysis, a branch of natural language processing (NLP), is the process of ascertaining the emotional tone of a text based on word selection, sentence formation, and semantic connections. Used in literary analysis, AI can identify mood shifts, categorize passages as positive or negative, and monitor emotional arcs in a story. This method has been employed to study character growth, thematic development, and the emotional resonance of works of literature (Bode 78).

Artificial intelligence models trained on emotional dictionaries sort words and phrases into sentiment groups like joy, sorrow, anger, fear, or surprise. For instance, researchers have employed sentiment analysis to trace out emotional arcs in novels, which exposes a trend of tension rising and falling. *Pride and Prejudice* research has indicated that the novel traces an alternating trend of positive and negative sentiment change, mirroring character conflicts and resolution (Kim and Klinger 150).

Sentiment analysis also assists in determining the emotional uniqueness of a writer's work. Comparative analyses of various writers have proven how AI can measure emotional variation, differentiating between the melancholic mood of Emily Dickinson's poetry and the satirical humor of Mark Twain (Underwood 98). Sentiment analysis has also been used to analyze historical literary movements, revealing changes in prevailing emotional themes over centuries (Reagan et al. 6).

#### ii. Intertextuality Detection

Intertextuality, the existence of references, allusions, and influences of one text in another, is a core component of literary analysis. AI-based

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intertextuality detection seeks to find these links by comparing similarities in wording, thematic content, and structural elements within large collections of texts. This method has been especially helpful in revealing literary influences and charting intertextual connections across genres and periods (Rockwell and Sinclair 65).

AI-powered tools like computational text comparison and vector-based similarity analysis allow researchers to identify nuanced intertextual allusions. For example, AI has been employed to map biblical allusions in English literature, detecting common themes and linguistic features that connect contemporary novels to religious texts (Jockers 105). Likewise, AI models have revealed Shakespearean echoes in contemporary works, showing how contemporary authors reinterpret classical themes (Hope and Witmore 210).

One of the difficulties of detecting intertextuality is separating intentional allusions from accidental similarities in language. Although AI can point out textual similarities, it cannot establish authorial intention or cultural relevance without human analysis. Moreover, AI has difficulty with indirect or implicit allusions, like thematic influences that are not clearly expressed in the text (Bode 85).

### 3. Comparative Case Studies and Ethical Implications

Literary studies have benefited from the application of artificial intelligence in terms of new approaches to text analysis, especially comparative case studies examining authorship, literary movements, and critical theory. AI algorithms have been used in questions regarding Shakespearean authorship, differences in style between Realism and Modernism, and identifying gender and racial bias in literature.

### i. Shakespearean Authorship: AI's Role in Disputed Works

Shakespearean authorship has been a point of academic controversy for centuries. Stylometric analysis based on artificial intelligence has been an important tool in resolving controversies regarding whether some plays

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traditionally ascribed to Shakespeare were authored by him alone or in collaboration with contemporaries. By applying linguistic fingerprinting, AI software examines word frequency, syntax, and patterns of phrases to compare controversial works to known plays by Shakespeare and other Elizabethan and Jacobean playwrights.

Perhaps the most influential AI-based research in this area examined the *Henry VI* plays, suspected to have been jointly written by Christopher Marlowe. Computational stylometry has yielded evidence favoring the theory that Marlowe wrote some of these plays, identifying stylistic features similar to his verified works. Similarly, AI models have given evidence to this extent: Shakespeare probably collaborated with Thomas Middleton on Timon of Athens and with John Fletcher on *Henry VIII* (Hope and Witmore 195).

#### ii. 19th-Century Realism Versus Modernism

The shift from Realism to Modernism is one of the most dramatic stylistic changes in literary history. AI models have been used to differentiate between these movements by examining syntax, narrative form, and thematic emphasis. Realist fiction, as seen in writers like Charles Dickens and Leo Tolstoy, is marked by elaborate descriptions, linear narrative, and focus on social conditions. Conversely, Modernist fiction, exemplified in Virginia Woolf's and James Joyce's works, tends to employ fractured narratives, stream-of-consciousness methods, and emphasis on subjective experience.

These stylistic variations have been quantified by using AI-generated text analysis. For example, research employing computational methodology has indicated that Realist writing has a greater proportion of concrete nouns, elaborate descriptive texts, and third-person omniscient narration, while Modernist writing has a greater proportion of first-person pronouns, elliptical sentence structure, and experimental narrative forms (Jockers 112). AI has also been used to monitor changes in sentence complexity through time, indicating a marked shift in style away from Realism's long descriptive sentences toward Modernism's more fractured and inner-directed sentence structures (Underwood 130).

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Whereas AI is effective in pointing to quantitative variations, it falters on the interpretive aspects of these movements. The thematic richness of Modernism, involving as it typically does ambiguity and layering of symbols, continues to be difficult for AI to adequately grasp. Further, AI fails to take into consideration the philosophical foundations of these literary modes such as Realist interest in representing society or Modernist interest in subjectivity and perception—which are central to a complete picture of these movements.

### iii. Postcolonial and Feminist Criticism

Postcolonial and feminist literary criticism concern themselves with issues of representation, power, and identity. Textual analysis through AI has been used to investigate gender and racial bias in literature, providing new avenues for analysis of how certain groups are represented over time and across genres.

AI has been employed to identify gender inequalities in literature through analysis of word frequency and type used to describe male and female characters. Research has shown that male characters in traditional literature are more likely to be linked to active verbs and authority roles, while females are described more by their physical appearance and emotions (Bode 90). AI has also played a significant role in measuring the marginalization of women's voices by comparing the percentage of dialogue spoken by male and female characters in classical works. The study has shown that even where women authors wrote novels, men dominated the narrative voice (Kim and Klinger 135).

In postcolonial literary analysis, AI has been used to identify patterns of Eurocentrism and racial discrimination in literary language. Computational analysis of colonial literature from the 19th and early 20th centuries has identified repeated patterns of dehumanization in the representation of indigenous characters, and linguistic indicators of Western superiority. By contrasting colonial-era texts with modern postcolonial reactions, AI can bring out changes in narrative point of view and ideological framing (Reagan et al.

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7). In addition, AI lacks cultural and historical knowledge to apprehend bias in its fullness of complexity and must therefore have human scholarly intervention involved in postcolonial and feminist literary studies.

### iv. AI Training Models

One of the key ethical issues in literary analysis using AI is the bias inherent in training models. AI models are trained on current literary corpora, which tend to be biased toward historical biases, such as Eurocentrism, gender disparity, and racial exclusion. Thus, AI models have the potential to perpetuate these biases while analyzing texts, favoring canonical writers and solidifying dominant literary traditions. Attempts have been made to diversify training sets by including non-Western and marginalized voices, but the problem of achieving representational balance remains (Bamman et al. 22).

### 4. Findings

### i. Artificial Intelligence in Literary Criticism

Artificial Intelligence (AI) has emerged as a powerful tool in literary scholarship, reshaping the manner in which authors interpret, analyze, and interact with texts. AI-powered methods like computational linguistics, machine learning, and natural language processing (NLP) have facilitated high-volume textual analysis, providing intelligence regarding authorship attribution, stylistic development, and intertextuality. However, AI also presents significant limitations, particularly in the interpretation of literary meaning, historical context, and thematic complexity. This paper examines the strengths and weaknesses of AI in literary criticism and explores the theoretical implications of its integration into the field, questioning its compatibility with various critical frameworks and the evolving role of the human critic.

### ii. AI's Strengths in Literary Criticism

One of the greatest contributions of AI to literary critique is its capability to process immense amounts of text data in a timely manner.

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Conventional close reading, as valuable as it is for intense textual analysis, is limited by human ability. AI-based practices like "distant reading," a term brought into vogue by Franco Moretti, enable researchers to compare thousands of texts at once and detect broad patterns and thematic movements that would be impossible to detect otherwise (Moretti 57). This mass level analysis has also provided fresh insights into genre evolution, narrative forms, and linguistic change in literary canons.

AI has also transformed comparative literary studies with its ability to conduct accurate stylistic and linguistic analysis across different periods. Computational models can follow the evolution of syntax, vocabulary, and narrative styles, revealing the shift from literary schools like Romanticism, Realism, and Modernism. Research has shown that AI can measure the growing prevalence of fractured sentence forms in Modernist fiction or identify changes in word usage that indicate changing cultural attitudes (Jockers 89). This ability allows scholars to better understand how literary styles and forms change over time, offering empirical evidence for literary periodization and categorization.

Stylometry, a field that applies statistical techniques to authorship attribution, has been one of AI's most successful applications in literary studies. AI-driven stylometric analysis has resolved long-standing debates regarding disputed authorship, such as confirming Christopher Marlowe's contributions to Henry VI and identifying Thomas Middleton's revisions in Measure for Measure (Hope and Witmore 201). Through the examination of word frequency, syntactic patterns, and lexical preferences, AI has yielded objective evidence in authorship verification and proved to be capable of streamlining conventional philological techniques.

#### iii. Limitations of AI in Interpretation

Although analytical, AI has inherent limitations in literary interpretation. In contrast to human readers, AI does not possess an intuitive sense of irony, metaphor, and ambiguity—components which form the essence of literary meaning. For example, while processing a text such as

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James Joyce's *Ulysses*, AI may be able to chart sentence grammar and word frequencies but not adequately understand the symbolic layering and stream-of-consciousness narrative which characterize the novel's literary import (Rockwell and Sinclair 75). Because AI is pattern-based, it has difficulty with texts that wilfully subvert syntactic expectations or use innovative linguistic play.

AI interpretive shortcomings are most pronounced in postcolonial and feminist criticism, where cultural and historical background is essential in discerning literary power relations. AI models that have been trained on highly Western literary corpora will tend to reproduce standard canonical slants, excluding non-Western and non-canonical texts. For instance, research has established that AI-based literary criticism tends to underrepresent texts written by women and authors in the Global South, resulting in distorted conclusions regarding literary history (Bode 102). The problem illustrates the epistemological constraint of AI in that it is unable to independently question mainstream narratives or identify subversive literary tactics on its own.

### vi. Theoretical Implications

The integration of AI into literary studies has significant theoretical implications, particularly in relation to established critical frameworks. AI aligns most closely with formalist and structuralist approaches, which emphasize textual structures, linguistic patterns, and narrative mechanics. Russian Formalism, for example, prioritizes the analysis of literary devices over authorial intent, making it compatible with AI's data-driven methodology. Equally, structuralist theories based on Saussurean linguistics emphasize underlying language systems, which can be modelled and interpreted by AI with ease (Eagleton 45).

But the situation of AI in respect to post-structuralist theories is not that straightforward. Post-structuralist theorists like Jacques Derrida and Roland Barthes hold the view that meaning is unstable and is determined by intertextuality and reader interpretation as opposed to fixed linguistic forms. AI, based as it is upon pre-established training material and algorithmic rules,

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is challenged by the indeterminacy and fluidity that post-structuralism celebrates. Its failure to explain polysemy multiple meanings existing within a single text demonstrates incompatibility with deconstructive analysis (Barthes 148).

The expanding influence of AI on literary criticism also conflicts with conventional ideas about literary subjectivity and the power of the human critic. The capability of AI to measure stylistic trends quantitatively and conduct large-scale text analysis leaves one wondering about the worth of human interpretation. While AI offers objective, reproducible findings, human critics offer historical, philosophical, and cultural context that cannot be emulated by machine learning algorithms. This tension makes it necessary for literary studies to evolve a new critical methodology that brings the application of computational methods into synergistic interplay with conventional hermeneutics such that AI complements and does not substitute human scholarship (Underwood 142).

#### 5. Outcome

AI has introduced a new dimension to literary criticism by offering computational techniques that expand the scope of textual analysis. However, its limitations in interpreting meaning, cultural context, and authorial intent suggest that AI should serve as a supplementary tool rather than an independent critic. A hybrid approach, combining AI's data-driven efficiency with human interpretative depth, offers the most promising model for the future of literary studies.

#### 6.Conclusion

AI has brought innovative methodologies to literary criticism, providing robust tools for textual analysis, verification of authorship, and comparative literary analysis. Yet, its inability to interpret, especially in terms of interpreting irony, metaphor, and cultural background, ensures that human literary scholars remain as necessary as ever. AI is strongest where formalist and structuralist methods dominate, but where incompatible with post-

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structural theory and bound to reinforce canonical biases, it could well create theoretical and ethical problems. Instead of seeing AI as a substitute for literary critics, scholars ought to embrace a hybrid model that brings together computational analysis and traditional interpretive strategies.

To conclude instead of substituting human literary scholars, AI must be regarded as a supplementary aid that complements and supplements classical literary methods. A hybrid model—wherein AI supports broad-scale analysis but human critics add interpretive subtlety—represents the most balanced and productive model for the future of literary criticism. The incorporation of AI into literary criticism necessitates a rethinking of current theoretical paradigms and the creation of new methods that are both computationally efficient and humanistic in approach. As AI advances, the task for literary scholars will be to leverage its advantages while maintaining the interpretative richness that characterizes the field.

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