An International Peer-Reviewed and Refereed Journal; **Impact Factor:** 8.175 (SJIF) **ISSN:** 2581-8333|**Volume 7, Issue 10(October)2025**

Communication and Consciousness: Revisiting Indian Knowledge Systems in the Age of AI

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Article Received: 06/09/2025 Article Accepted: 05/10/2025 Published Online: 06/10/2025 DOI:10.47311/IJOES.2025.7.10.119

Abstract:

This paper explores the deep interconnection between language, consciousness, and communication by revisiting Indian Knowledge Systems (IKS) in the context of the contemporary age of Artificial Intelligence (AI). While AI has made remarkable strides in replicating aspects of human communication through Natural Language Processing (NLP) and Machine Learning, it continues to lack the conscious awareness that underlies genuine human expression. Drawing insights from the philosophies of Pāṇini, Bhartrhari, and the Upanishadic worldview, this study contrasts the mechanistic processing of AI with the integrative vision of communication in Indian traditions. It highlights concepts like *Sphota* (the flash of meaning), *Chaitanya* (conscious awareness), and *Vāk* (speech as sacred power), proposing that true communication is not merely linguistic exchange but a conscious, intentional, and context-sensitive act. The paper also reflects on poetic language, narrative richness, and ethical frameworks found in Indian literature and philosophy as benchmarks that AI models must aspire toward, if they are to meaningfully assist humanity. Ultimately, it argues for a fusion of technological innovation and ancient wisdom to ensure that future communication systems remain ethical, conscious, and culturally rooted.

Keywords

Indian Knowledge Systems (IKS); Artificial Intelligence (AI); Communication; Consciousness; Pāṇini; Bhartrhari; Sphoṭa Theory; Chaitanya; Vāk; NLP (Natural Language Processing); Ethical AI; Language and Philosophy; Poetic Language; Taittirīya Upaniṣad; Cultural Communication; Human vs Machine Intelligence.

Introduction

Communication is more than the exchange of information; it is the expression of being. As Artificial Intelligence (AI) continues to evolve, it is becoming increasingly adept at mimicking human language through systems like chatbots, voice assistants, and machine translation tools. However, AI still lacks what Indian traditions have long considered the soul of communication - *chaitanya* (conscious awareness), *sankalpa* (intent), and *dharma* (ethical alignment).

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Indian Knowledge Systems (IKS) have always placed consciousness at the heart of speech. From the *Vaak Suktam* of the Rigveda, where the goddess Vaak (Vagdevi) declares, "I am the one who makes the man I love mighty," to the Upanishadic assertion that speech must align with truth (*satyam*) and essence (*rtam*), Indian philosophy has offered a spiritually grounded, ethically guided view of communication (Rigveda 10.125). The Taittiriya Upanishad, in its layered exploration of the human self, describes Vaak as emerging from *manas* (mind) and *praana* (vital breath), reinforcing that true speech arises from inner awareness (Taittiriya Upanishad 2.4).

In contrast, modern AI-based language models function through statistical pattern recognition and large-scale data processing. While they can generate grammatically correct and contextually relevant sentences, they operate without personal intent, emotional intuition, or ethical discernment. This gap calls for a rethinking of how we understand and apply communication in the age of AI.

This paper aims to examine the intersection of AI-generated language and traditional Indian views of communication, especially through the works of ancient grammarian Panini and language philosopher Bhartrihari. It also explores the philosophical importance of communication as consciousness, as found in Indian scriptures, and contrasts it with the limitations of algorithmic speech. By bringing these two worlds – IKS and AI – together, the paper presents a dharmic perspective on how machines may serve human needs without replacing the soul of language.

1. Consciousness as the Foundation of Communication: The Indian Worldview

In Indian philosophical thought, communication is not just an external activity of exchanging words, but an internal, conscious act. Unlike the Western functionalist models, which often view language as a tool to express already-formed thoughts, Indian Knowledge Systems place consciousness (*chaitanya*) at the very root of language itself.

The Lavers of Human Communication

The *Taittiriya Upanishad* describes the human being as composed of five *koshas* or sheaths: the physical (*annamaya*), vital energy (*pranamaya*), mental (*manomaya*), intellectual (*vijnanamaya*), and bliss (*anandamaya*) sheaths. Among these, *vaak* (speech) is not merely a physiological activity but arises from the inner layers - first from *manas* (mind), then prāṇa (vital breath), and finally externalised as spoken words. The Upanishad affirms, "*Speech is rooted in the mind; mind is rooted in praana*" (*Taittiriya Upanishad*, 2.4). This layered emergence implies that meaningful speech must be a product of conscious thought and ethical clarity.

Vaak and Dharma

In the *Rigveda*, Vaak is personified as a goddess who proclaims: "I move with Rudras, with Vasus, I uphold both Mitra and Varuna... I am the queen, the gatherer-up of treasures, most thoughtful, first of those who merit worship" (*Rigveda* 10.125). This hymn sees speech as a force that shapes reality and harmonises opposites. Vaak is not just sound it is power (*shakti*), order (*rta*), and moral will (*dharma*).

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John Searle, in his speech act theory, argued that speaking is a form of doing - that every utterance carries an *illocutionary* force (Searle 16). This aligns closely with the Vedic idea that speech is performative and world-creating. However, Indian tradition goes further by insisting that this performativity is fruitful only when rooted in awareness and virtue.

Modern Gap: Communication Without Consciousness

In today's AI-driven world, machines can replicate the *form* of speech—generate answers, respond to questions, simulate conversation. But what they lack is *awareness*. AI systems do not know what they are saying; they operate through pattern prediction, not mindful intention. This absence of *chaitanya* results in a gap between output and meaning. It is this gap that the Indian worldview seeks to bridge.

2. Vaak and Sabda in Indian Philosophy: The Inner Dynamics of Speech

In the Indian philosophical tradition, speech (*vaak*) and sound (*sabda*) are not mere mechanical outputs of the human mouth but deeply spiritual processes rooted in consciousness. The sacred understanding of language surpasses utilitarian communication and enters the realm of ontology - the science of being.

The Four Levels of Vaak

The *Rigveda* and subsequent *Tantric* and *Vedantic* texts describe *vaak* as manifesting in four stages:

- Para (Transcendental) the undifferentiated, pure form of speech rooted in consciousness.
- **Pasyanti** (**Visionary**) the level at which language begins to take shape within intuition.
- Madhyama (Mental) the level where thoughts are mentally formulated.
- Vaikhari (External) the spoken word, expressed through the vocal organs.

These four levels of vaak are said to arise from *para-brahman* (the Absolute Reality), pass through *buddhi* (intellect) and *manas* (mind), and finally manifest through *sarira* (body). As the *Rigveda* notes: "*Catvari vaak parimita padani*"—"Speech has four levels, of which only one is expressed outwardly" (Rigveda 1.164.45).

Sabda as a Carrier of Consciousness

The Mimamsa and Vyakaranana schools of Indian philosophy regard Sabda (sound/word) as eternal and self-revealing (svataḥ-pramana). The sabda is not just a symbol but an entity that carries inherent meaning when received by a conscious being. Thus, language in this tradition is sacred and transformative.

Bhartrhari, the 5th-century philosopher-linguist, in his seminal work Vakyapadiya, elaborates on the unity of sabda and artha (word and meaning), presenting the Sphota theory. According to him, the meaning of a sentence emerges not as a sum of individual word-meanings, but as a holistic flash (sphota) of understanding—similar to how a light suddenly illuminates an entire room.

"Just as a picture, though composed of many lines and colours, is perceived as a whole, so is a sentence understood in a flash" (Vaakyapadiya, I.123).

Bridging Ancient Insights and Modern Communication

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This theory of holistic perception challenges the Western linear view of language processing. It also offers a key insight into human cognition that AI still grapples with: context and totality. AI language models operate through word-to-word probability calculations, but often fail to grasp the wholeness of meaning that arises in human cognition. Bhartrhari's sphota theory provides a philosophical lens to bridge this gap and enhance semantic understanding in machines.

3. Panini and the Algorithm of Language: From Sutra to Software

India's contributions to linguistics reach a zenith in the work of Panini, the legendary Sanskrit grammarian of the 5th century BCE, whose Ashtadhyayi is considered one of the most sophisticated linguistic systems ever devised. While Western linguistic theory evolved in modern times through figures like Ferdinand de Saussure and Noam Chomsky, India had already conceptualized a rigorous, generative, and rule-based model of language more than two millennia ago.

The Structure of Astadhyavi

Panini's Astadhyayi consists of approximately 3,959 concise aphorisms (sutras) that form a compact meta-language. These sutras act as rules that describe how words are derived, modified, and structured grammatically.

Each rule is:

- **Efficient**: Formulated using the fewest possible syllables.
- Context-sensitive: Dependent on preceding and following elements.
- **Recursive and Modular**: Capable of being reused and nested to generate new formations.

This architecture resembles the design of modern computer algorithms, particularly in Natural Language Processing (NLP) systems. The notion of generative grammar, widely associated with Chomsky, is anticipated in Panini's method, where a finite set of rules can generate an infinite number of correct expressions.

As renowned linguist Noam Chomsky himself acknowledged: "Panini's grammar is a major landmark in the history of science and deserves to be more widely studied for its intrinsic insights into the nature of language" (Chomsky, Language and Mind).

Relevance to Artificial Intelligence

In the era of Artificial Intelligence, Panini's system has gained renewed interest among computational linguists. It is now being studied as a prototype for rule-based language modeling. His rules function much like context-free grammars used in AI and programming languages.

Scholars such as Peter Scharf and Rajeev Sangal have highlighted how Panini's grammatical system could be re-engineered into computational models. The Astadhyayi has also inspired developments in Indian NLP tools such as Sanskrit parsers, machine translation systems, and morphological analyzers.

What makes Panini's approach unique is not only its logical precision but also its philosophical grounding—rooted in the belief that language is a manifestation of the deeper cosmic order (rta), and not merely a social construct.

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AI and Indian Knowledge Systems: Lessons from Panini

While AI seeks to replicate language processing, Indian Knowledge Systems remind us that language is both rule and resonance, form and spirit. In combining technical structure with ontological awareness, Panini provides a model that is not just about linguistic correctness but also cognitive elegance.

4. Bhartrhari's Sphota Theory – The Flash of Meaning

The Indian philosopher and grammarian Bhartrhari (5th century CE), renowned for his Śatakatraya (three centuries of poetry), also made foundational contributions to linguistic philosophy through his magnum opus, Vākyapadīya. One of the most profound concepts articulated by Bhartrhari is that of **Sphoṭa**, a term derived from the Sanskrit root sphut, meaning "to burst" or "to unfold." In linguistic terms, Sphoṭa refers to the instantaneous cognition of meaning when a sentence is heard or read - an experience akin to a flash of insight.

Language as a Whole, Not in Parts

Bhartrhari challenges the idea that meaning arises through the linear processing of individual sounds (varna) or words (pada). Instead, he posits that understanding happens at the level of the complete sentence ($v\bar{a}kya$), in a singular, indivisible moment of cognition. The listener does not assemble meaning piece by piece; rather, meaning "bursts forth" as a whole—the Sphota.

As Bhartrhari writes:

"The word is recognized in the mind, not through the letters that compose it, but through the indivisible essence revealed at once" ($V\bar{a}kyapad\bar{i}ya$ 1.44).

This idea highlights the primacy of cognition over mere articulation. It treats language as a unified expression of thought, not just a sequence of phonetic units.

Three Levels of Language

Bhartrhari classifies language expression into three levels:

- 1. **Varna** individual sound or letter
- 2. **Pada** word
- 3. **Vākya** sentence

Yet, it is not until the level of $v\bar{a}kya$ that semantic completion occurs. The philosophy suggests that the human mind holds an inherent capacity to perceive holistic meaning, transcending grammatical dissection.

Relevance to Artificial Intelligence

In Natural Language Processing (NLP), contextual understanding remains one of the most challenging aspects. AI models often process language linearly and statistically - token by token - struggling to replicate human-like comprehension that captures tone, nuance, and deeper implications.

Here, Bhartrhari's insight into cognitive processing offers significant value. His theory of Sphota aligns more closely with semantic and contextual AI, where meaning needs to be grasped holistically rather than generated from discrete units. As John Searle argues in his theory of *intentionality*, machines lack the inner, subjective consciousness that humans employ to attach meaning to language (Searle 69–71).

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Thus, Bhartrhari's model can inspire more integrated, perception-oriented approaches to AI, especially in building systems that aim for deeper semantic understanding rather than surface-level fluency.

5. Language and Poetry - The Human Creative Edge over AI

Poetry, in Indian and global traditions alike, is not merely an artistic expression—it is a condensed form of communication that transcends the literal. In India, from the evocative verses of Bhavabhūti and Kālidāsa to the modern voices of Rabindranath Tagore and Sri Sri, poetry has been the medium of devotion, wisdom, resistance, and introspection. The Indian poetic tradition, especially as seen in Sanskrit and regional literatures, employs *rasa* (aesthetic essence) and *dhvani* (suggestion) as core expressive tools, reflecting an inner awareness (*chaitanya*) that cannot be separated from its verbal art.

As Anandavardhana proposed in his seminal work *Dhvanyāloka*, true poetic meaning is suggested, not stated, and arises in the consciousness of the sensitive reader. This reliance on emotional intuition, cultural depth, and spiritual overtones creates a poetic experience that is both individual and universal.

AI and Poetic Creation: Simulation without Sentience

With recent advancements in Natural Language Generation (NLG), AI is now capable of producing creative texts, including poems, stories, and songs. These machinegenerated compositions often mimic rhyme schemes, metaphorical structures, and even emotional themes. However, a fundamental question remains: *Can machines truly understand or feel what they create?*

Poetic language is born not just from a command of vocabulary, but from lived experience, emotional resonance, and existential reflection. As John Searle argues in his analysis of artificial intelligence, machines simulate understanding but lack intentionality - the conscious, directed state of mind required for true creativity (Searle 420).

Thus, while AI may pass the Turing Test in surface fluency, it fails the Rasa Test - the ability to evoke genuine emotion in both creator and reader.

Indian Poetics and the Question of Consciousness

Indian aesthetics insists that the highest form of language is not just expressive but transformative. The *Taittirīya Upaniṣad* speaks of vāc (speech) as divine and integral to spiritual realization. Similarly, poets like Tagore viewed poetry as a bridge between the human soul and the cosmos.

This depth is missing in AI-generated poetry, which, while impressive in mimicry, remains hollow in intention. As this paper has earlier noted, "without chaitanya (conscious awareness), language becomes shabda (mere sound), not amṛta (nectar)."

Reaffirming the Human Creative Edge

Therefore, even as AI continues to evolve in generating text, the spark of consciousness, subtle suggestion, and intentional creativity remain uniquely human. Indian poetic traditions teach us that the value of language lies not in its structure alone, but in its source - the conscious being.

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6. AI's Role in Indian Languages and Culture: Preservation or Simulation?

The proliferation of Artificial Intelligence in the Indian linguistic and cultural space is both promising and perplexing. On one hand, AI technologies are being employed for valuable tasks such as digitising ancient manuscripts—including the *Vedas, Itihasas*, and *Puranas*—as well as preserving endangered Indian languages. AI tools like Optical Character Recognition (OCR), speech synthesis, and machine translation are contributing to the archiving of rich cultural artefacts that would otherwise fade into oblivion.

Projects such as *Bharatavani*, *Sanskrit AI*, and *AI4Bharat* are engaged in converting scriptural texts into machine-readable formats, producing audio renderings of classical works, and building multilingual language models that serve the broader goals of inclusivity and preservation. AI-enabled tools like voice cloning are even being experimented with to render Vedic chants and classical literary works in natural-sounding tones—reviving the oral tradition in digital form.

However, despite these efforts, the real challenge is not merely technological but philosophical. Can AI genuinely *interpret* Indian literary and cultural concepts such as rasa (aesthetic emotion), dhvani (suggested meaning), *lokadharma* (ethics of the people), or *paramārthika satya* (ultimate truth)? These are not lexical elements to be decoded by algorithms, but deeply embodied cultural experiences shaped by generations of lived knowledge and refined sensibilities.

For instance, the *Natya Shastra* does not merely describe the structure of a drama; it outlines the spiritual elevation of the audience through rasa. AI, even with its advanced computational abilities, is ill-equipped to *experience* or *evaluate* such subtleties. A machine can simulate laughter or sorrow through predictive outputs, but it cannot feel the *karuṇa rasa* in Tulsidas' portrayal of Sita's agony or *vīra rasa* in Hanuman's exploits.

Therefore, the use of AI in Indian culture should not be aimed merely at replication, but at reverent preservation, guided by dharmic principles and ethical design. As scholars like Kapil Kapoor argue, Indian Knowledge Systems (IKS) are *embodied and experiential*, and thus cannot be fully outsourced to disembodied computational agents (Kapoor 12).

To preserve authenticity, AI must be trained not just on textual data, but on *value systems* embedded in the traditions themselves. This includes incorporating context-awareness, scriptural sensitivities, and aesthetic frameworks native to Indian epistemology. A pertinent concern raised by an anonymous Sanskrit scholar deserves our attention: "We may digitise the Shastras, but without understanding their spirit, we risk building temples without deities."

This also raises pertinent questions of agency, control, and cultural continuity. If the algorithms used to preserve and render Indian texts are developed without *Bharateeya* sensibilities, is it a digital colonisation in a new form? To counter this, the future of AI in

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Indian culture must be grounded in self-representation, linguistic diversity, and dharmic fidelity.

7. Towards Ethical and Context-Aware AI: The Way Forward

Artificial Intelligence continues to evolve with increasing capabilities in language understanding, content generation, and personalised interactions. However, the question remains: can AI ever move from *mimicking* communication to *embodying* it with responsibility and ethics? The Indian Knowledge Systems (IKS) offer profound insights that can guide the ethical development of AI, particularly in the realm of human communication.

7.1 The Ethical Gap and the Role of Human Designers

Despite the sophistication of machine learning models and Natural Language Processing, AI still lacks intrinsic moral judgment. It cannot distinguish between satya (truth) and asatya (falsehood), or between hita (beneficial speech) and ahita (harmful speech) unless trained within explicit ethical boundaries. The responsibility, therefore, lies with human designers and policy-makers to ensure that AI systems reflect ethical consciousness, even if they cannot possess it themselves.

In this regard, the Taittirīya Upaniṣad provides a timeless axiom:

"Satyam vada, dharmam chara" – Speak the truth, walk the path of righteousness (1.11.1). This should not only guide humans in interpersonal communication but must also inspire frameworks for AI discourse—where every utterance is expected to be aligned with truth (*satya*), intent (*sankalpa*), and wellbeing (*kalyāṇa*).

7.2 Incorporating IKS into AI Ethics Frameworks

Designing ethically aligned AI involves not just computational accuracy but also intentionality and contextual awareness, areas deeply valued in Indian epistemology. By drawing upon principles like:

- Vāk Suddhi (Purity of Speech) promoting transparency and responsibility in AIgenerated content
- Sankalpa (Conscious Intent) ensuring AI outputs are aligned with declared purposes
- **Sphota** (**Unified Comprehension**) integrating contextual understanding in NLP design
- Anugraha Bhāṣaṇam (Blessing-oriented speech) encouraging positive communication
- Samvāda (Dialogic Communication) designing AI to foster meaningful dialogue, not monologue

Such ethical coding can serve as the Indian contribution to the global AI ethics discourse, offering not just algorithms but \bar{A} tmabodha – a moral compass for machines.

7.3 The Philosophical Boundary: Will AI Ever Attain Chaitanya?

A fundamental distinction must be reiterated: AI can simulate *chitta* (mind activity) but not *chaitanya* (consciousness). It lacks self-awareness, inner purpose, and the experiential core that defines human interaction. As John Searle explained in his famous

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"Chinese Room Argument," AI may appear to understand language, but it is merely manipulating symbols without any semantics or sentience (Searle 417).

This distinction echoes the Indian concept of $v\bar{a}k$ passing through four stages - $par\bar{a}$, $pa\acute{s}yant\bar{\imath}$, $madhyam\bar{a}$, and $vaikhar\bar{\imath}$. While AI operates in the realm of $vaikhar\bar{\imath}$ (external speech), it lacks access to the deeper layers of speech rooted in consciousness and dharma. Thus, the future does not lie in developing conscious machines, but in ensuring that conscious humans design and govern machines that serve humanity with wisdom.

7.4 Reclaiming the Human Centre in Communication

In the age of AI, the challenge is not to humanise machines but to retain the human at the centre of the communicative act. As Sri Aurobindo wrote, "Man is a transitional being. He is not final." While AI may represent an evolutionary tool in external life, inner growth - of consciousness, responsibility, and compassion - remains solely human.

We must train students, educators, and technologists to:

- Understand the **epistemic roots** of speech
- Use AI as an aid, not a replacement, in value-based education
- Uphold **speech ethics** in an age of digital noise

Just as Bhartrhari insists on the unity of thought, word, and deed in communication, future AI systems must reflect an integrated approach to language - *rooted in ethics, enriched with rasa*, and guided by *dharma*.

8. Concluding Reflections: Communication as Consciousness

The journey through language, cognition, and consciousness—traversing Indian epistemology and modern AI—reveals that communication is far more than transmission of information. It is the intentional, meaningful, and ethically aligned expression of inner awareness, born out of the unity of thought (manas), word ($v\bar{a}k$), and action ($karm\bar{a}$). This integrated view stands in sharp contrast to today's algorithmic models, which simulate communication without sentience or self-awareness.

In Indian thought, **speech is sacred.** It is not merely a functional tool, but a manifestation of consciousness (*chaitanya*). As the *Rig Veda* affirms:

"Vācam astāparā vipaścitāḥ" — The wise cherish the speech as divine (Rig Veda 10.71.4). This vision urges us to reframe our understanding of language technologies. AI, in all its utility, must not be mistaken for a replacement of human presence, responsibility, and relationality. The future of communication—especially in the age of intelligent machines—must be anchored in consciousness, guided by values, and inspired by timeless insights from our shared civilisational wisdom.

The Indian Knowledge Systems offer a valuable paradigm: a humane, ethical, and spiritually rooted vision of language that can inform the design and regulation of AI-driven communicative systems. By drawing from sages like Bhartrhari, insights from Upanişadic texts, and voices like Sri Aurobindo and Swami Vivekananda, we realise that language without awareness is noise, and technology without dharma is dangerous.

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Let AI become not a substitute for communication, but a tool to enhance authentic, conscious, and context-sensitive interaction. As stewards of both tradition and innovation, we must ensure that humanity remains at the heart of the communication revolution.

The future belongs not merely to those who master tools, but to those who infuse them with meaning. It is in this confluence of machine efficiency and human ethics that the true potential of communication and civilisation lies.

References:

Bhartrhari. Vākyapadīya. Translated by K. A. Subramania Iyer, Deccan College Postgraduate Research Institute, 1965.

Bronkhorst, Johannes. Panini and the Vedic Literature. EJ Brill, 1987.

Chaitanya, Krishna. Philosophy of Bhartrihari. Asia Publishing House, 1965.

Chomsky, Noam. Syntactic Structures. Mouton, 1957.

Coward, Harold G., and K. Kunjunni Raja. The Philosophy of the Grammarians. Motilal Banarsidass, 1990.

Dasgupta, Surendranath. A History of Indian Philosophy, Vol. 1. Cambridge University Press, 1922.

Kapur, Deepak. "Panini's Grammar and its Relevance to NLP." Journal of Language Modelling, vol. 2, no. 2, 2014, pp. 379–420.

Mohanty, Jitendra Nath. Classical Indian Philosophy. Rowman & Littlefield, 2000.

Narayan, R. K. The Ramayana: A Shortened Modern Prose Version of the Indian Epic. Penguin Books, 1972.

Patnaik, Debashis. "Revisiting Indian Epistemology for Artificial Intelligence." Journal of Indian Council of Philosophical Research, vol. 35, no. 1, 2018, pp. 27–42.

Rig Veda. Translated by Ralph T. H. Griffith, Evinity Publishing, 2009.

Searle, John R. Mind, Language and Society: Philosophy in the Real World. Basic Books, 1998.

Searle, John R. "Minds, Brains, and Programs." Behavioral and Brain Sciences, vol. 3, no.

An International Peer-Reviewed and Refereed Journal; **Impact Factor:** 8.175 (SJIF) **ISSN:** 2581-8333|**Volume 7, Issue 10(October)2025**

^{3, 1980,} pp. 417–424.

Sri Aurobindo. The Future Poetry. Sri Aurobindo Ashram Trust, 1994.

Swami Vivekananda. Complete Works of Swami Vivekananda. Vol. 1–9, Advaita Ashrama, 2013.

Taittirīya Upanishad. Translated by Swami Gambhirananda, Advaita Ashrama, 2000.

Turing, A. M. "Computing Machinery and Intelligence." Mind, vol. 59, no. 236, 1950, pp. 433–460.

Vācaspati Miśra. Tattvabindu. Edited by L. S. Kawthekar, BORI, 1970.

Yardi, M. R. The Philosophy of Panini: Language, Grammar and Reality. D. K. Printworld, 1995

Zlatev, Jordan, et al. "Language, Consciousness, and Communication: Three Interrelated Problems." Journal of Consciousness Studies, vol. 11, no. 9, 2004, pp. 1–18.