

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

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निर्गमन सं. 25/2025  
ISSUE NO. 25/2025

शुक्रवार  
FRIDAY

दिनांक: 20/06/2025  
DATE: 20/06/2025

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION		(21) Application No.202531051875 A	
(19) INDIA			
(22) Date of filing of Application :29/05/2025		(43) Publication Date : 20/06/2025	
(54) Title of the invention : NUTAAN H-RAM: HUMANIZED REASONING AND MEMORY ARCHITECTURE FOR ENTERPRISE AI SYSTEMS			
(51) International classification :G06N20/00, G06Q10/067, G06Q10/10, G06Q10/06		(71)Name of Applicant : <b>1)TECOSYS AI PRIVATE LIMITED</b> Address of Applicant :117/2559 64 PALLY, MONDALPARA, Shyamnagar, Barrackpur - I, North 24 Parganas, West Bengal, 743127, India -----	
(86) International Application No :NA Filing Date :NA		<b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b>	
(87) International Publication No : NA		(72)Name of Inventor :	
(61) Patent of Addition to Application Number :NA Filing Date :NA		<b>1)TECOSYS AI PRIVATE LIMITED</b> Address of Applicant :117/2559 64 PALLY, MONDALPARA, Shyamnagar, Barrackpur - I, North 24 Parganas, West Bengal, 743127, India -----	
(62) Divisional to Application Number :NA Filing Date :NA			

(57) Abstract :  
NUTAAN H-RAM: HUMANIZED REASONING AND MEMORY ARCHITECTURE FOR ENTERPRISE AI SYSTEMS The present invention discloses Nutaan H-RAM, a Humanized Reasoning and Memory Architecture engineered for enterprise-grade artificial intelligence systems. This unified framework integrates contextual memory simulation, logical reasoning engines, and memory-efficient computational strategies to mimic human-like cognitive behavior in AI-driven environments. The architecture comprises modular components for hierarchical memory management (short-term, long-term, and episodic), goal-driven multi-step reasoning, dynamic self-correction, and student-teacher model distillation to enable scalable, cost-effective deployments. Nutaan H-RAM further embeds a secure and compliant infrastructure featuring role-based access control, advanced encryption standards, and audit logging aligned with industry regulations such as HIPAA, SOC2, and GDPR. Its design emphasizes ethical AI development, ensuring transparency, auditability, and domain-specific adaptability. The system is optimized for real-time responsiveness and supports diverse enterprise applications including diagnostic assistance, legal compliance verification, financial analytics, and knowledge discovery in research. Through this invention, enterprises are empowered to deploy intelligent AI systems that deliver high-precision, explainable, and context-aware outputs while maintaining rigorous compliance and data integrity. FIG.1

No. of Pages : 14 No. of Claims : 7