YEARLY REPORT — 2025

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Year in Review

How Tecosys Turned Vision into Impact

A reflection on growth, innovation, and purpose



A NOTE ON VISION, RESPONSIBILITY, AND THE ROAD AHEAD

A Year of Purposeful Progress

This year marked a defining chapter in Tecosys' journey—not because of how fast we moved, but because of how intentionally we chose to evolve.

When we began, Nutaan was initially a traditional chatbot where we struggled to understand its true potential beyond basic conversations. While the technology worked, the value was not always immediately visible—and that insight became a turning point for us.

Rather than pushing adoption, we paused to listen.



What emerged was a clear pivot: Nutaan should not be a chat box it should be a reasoning driven business assistant.

Today, Nutaan operates as an intelligent assistant trained on an organization's own knowledge its website content, documents, FAQs, services, and workflows. Instead of open-ended chatting, users now engage through purpose-built actions designed to answer real questions, guide visitors with clarity, and support informed decisions and next steps.

This shift fundamentally changed how users experience Nutaan. The new interface makes its value apparent from day one. Businesses no longer wonder what to ask the system leads with intent, context, and outcome.

At the same time, our broader vision continued to take shape. We expanded Nutaan H-RAM into BFSI use cases involving document understanding, underwriting assistance, and risk reasoning. In healthcare, we saw growing adoption of our ambient intelligence platform, supporting clinicians through noise-free documentation and structured outputs that integrate seamlessly with existing systems.

What I am most proud of this year is not just the progress we made, but the discipline to pivot when clarity demanded it. True innovation is not about building louder products it is about building useful intelligence.

As we move forward, Nutaan is being shaped into something far more enduring: a reasoning-first assistant that helps people get work done not just have conversations. The foundations are now in place.

The next phase is about scaling impact with trust, focus, and purpose.

Warm regards, Mr. Avishek Bhattacharjee Founder & Leadership Team, Tecosys

A MESSAGE FROM LEADERSHIP

Dear Stakeholders,

As the Co-Founder & CTO of Tecosys, this journey has been both challenging and deeply rewarding. From defining the core vision of Nutaan AI to building scalable, real-world systems, every step has required persistence, experimentation, and innovation.

A key milestone has been developing our RaaS (Reasoning as a Service) architecture, which enables intelligent, explainable, and context-aware decision-making across applications. Translating this vision into a production-ready platform pushed us to rethink how AI should reason, not just respond.



Building the Nutaan Live Chat Widget on top of our RaaS layer was especially demanding, from system design to context handling, performance optimization, and seamless integration. The struggle behind making it live shaped both the product and the engineering culture. Tecosys is not just a company, but a mission to deliver ethical, reliable, and human-centric Al. I'm proud of what we've built and excited about what lies ahead.

Warm regards, Mr. Haraprasad Hota Co-Founder & Leadership Team, Tecosys



As a businesswoman, I experienced AI not as a replacement for human judgment, but as a powerful extension of it.

What stood out was how Tecosys applied AI to reveal patterns, reduce systemic friction, and support better decisions.

They treat AI as infrastructure for clarity—not control—grounded in ethics and real-world constraints.

Learning that Avishek was educated in Hooghly, at an institution shaped by both colonial legacy and reformist vision, deeply resonated with me.

I encountered the consequences of broken systems in the West; he studied their architecture at the source.

That convergence—symptom and source code—is rare. It explains why this partnership works. Together, we are building solutions that are historically aware and future-ready.

Warm regards, Ms. Kathryn Chitwood Advisory Member

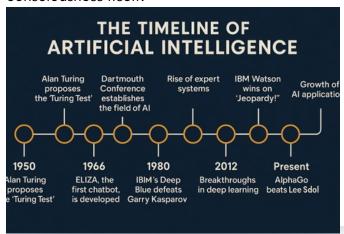
THE AI PARADOX

HOW MACHINES LEARNED TO THINK AND WHY THEY STILL NEED US

Artificial Intelligence did not begin with large language models, chatbots, or generative art. Its roots trace back to a single, audacious question: Can machines think?

The Genesis of Al

In 1956, at the Dartmouth Conference, John McCarthy formally coined the term Artificial Intelligence, defining it as the science and engineering of making intelligent machines. The early imagination of AI was deeply influenced by cultural metaphors—Frankenstein, the fear of man-made intelligence surpassing its creator, and the philosophical challenge of defining consciousness itself.



Soon after, **Alan Turing** introduced the **Turing Test**, proposing that if a machine could convincingly imitate human conversation, it could be considered intelligent. This shifted Al from mechanical calculation to behavioral intelligence.



Pioneers like Marvin
Minsky expanded the
field by exploring
symbolic reasoning
and cognitive
architectures,
while early machine
learning concepts—
eventually leading to

algorithms such as **Support Vector Machines** (**SVMs**) attempted to teach machines pattern recognition rather than rigid rules.

The Limits of Early Intelligence

tightly

Despite bold ideas, early AI faced a harsh reality: computation was slow, data was scarce, and models were shallow. The first AI programs and games could reason, but only

constrained
environments.
Intelligence existed
—but it was fragile,
narrow, and
expensive.
Al entered what
history calls the Al
Winters—periods
where expectations
outpaced capability.

within





The Compute Revolution

Everything changed with the rise of **high- performance computation.**

The introduction of **NVIDIA GPUs** transformed AI from academic theory into scalable engineering. GPUs enabled massive parallel computation, and with the launch of CUDA, developers could finally train deep neural networks on real-world data at unprecedented speed.

Long-term, strategic investment in GPU ecosystems quietly laid the foundation for modern Al—years before its impact became visible.

The TPU Breakthrough: Purpose-Built Intelligence

While GPUs democratized Al computation, another shift occurred with **Google's Tensor Processing Units (TPUs)**.

TPUs were not general-purpose processors—they were **purpose-built for neural networks.** Designed specifically for tensor operations and matrix multiplication,

TPUs delivered:

- Higher performance per watt
- Lower latency for inference
- Dramatically improved energy efficiency

TPUs marked a philosophical shift in Al infrastructure: Intelligence no longer depended only on scale but on specialized architecture.

This hardware-software co-design allowed large models to be trained and deployed more sustainably, influencing how modern Al systems balance speed, cost, and environmental impact.



The Tecosys Perspective: Nutaan H-RAM



At Tecosys, we recognized a deeper paradox in Al's evolution.

Despite remarkable intelligence, modern Al still struggles with hallucination, context drift, memory loss, and human alignment. Intelligence without grounded reasoning can be dangerous especially in regulated, high-stakes domains like healthcare, finance, and governance.

This led to the creation of Nutaan H-RAM (Humanized Reasoning & Memory Architecture).

H-RAM is not just another model—it is an architectural philosophy:

- Reasoning before response
- Memory with accountability
- Context grounded in human logic

Noise and hallucination suppression by design

Toward AGI: The Final Paradox

As the world accelerates toward Artificial General Intelligence (AGI), the paradox becomes impossible to ignore. For decades, progress in AI has been measured by scale—more parameters, more data, more compute. GPUs became faster, TPUs more specialized, and models grew to unprecedented sizes. Intelligence appeared to advance in proportion to infrastructure.

Yet something essential remained missing.

Why Scale Alone Breaks?

Larger models can generate more text, images, and predictions—but scale does not guarantee understanding.

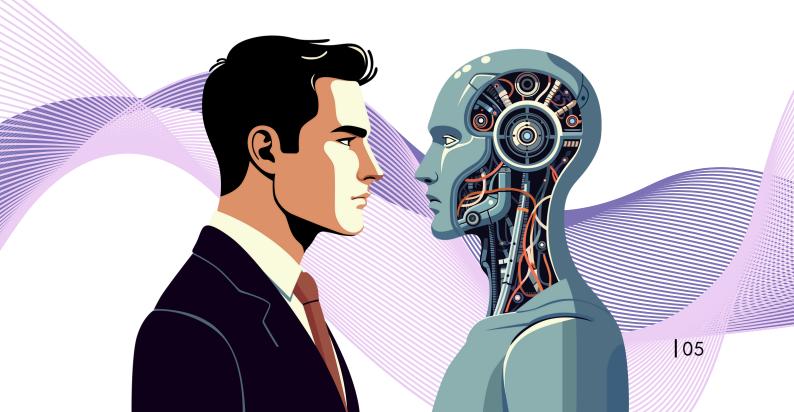
In other words, intelligence without structure becomes noise.

"True intelligence is not scale alone—it is understanding, restraint, and purpose."

The Architecture Shift

AGI will not emerge from faster GPUs or larger clusters alone. It will emerge from architectural breakthroughs that integrate:

- **Reasoning** the ability to decide why, not just what
- Memory continuity, accountability, and learning over time
- Ethics boundaries that prevent misuse and unintended harm
- Human Context understanding intent, emotion, and consequence



WHERE COSMIC INTELLIGENCE MEETS HUMAN INNOVATION

At Tecosys, we are pioneers of modern intelligence systems. We build architectures, models, and reasoning engines that power the future of enterprises. Yet, even as we engineer intelligence at scale, we remain deeply aware of a timeless truth:

Intelligence did not begin with machines.

Long before algorithms, silicon, or computation, human civilization sought to understand intelligence as a **cosmic force**—one that governs creation, preservation, and transformation. In Indian philosophy, this intelligence finds its most profound expression in **Nataraja**, the cosmic form of **Lord Shiva**.

The Cosmic Intelligence of Nataraja

Despite bold ideas, early AI faced a harsh reality: computation was slow, data was scarce, and models were shallow. The first AI programs and games could reason, but only

Nataraja—the Lord of the Dance—represents the eternal rhythm of the universe. His dance, the **Tandava**, is not chaos; it is structured motion.

Each gesture symbolizes a fundamental principle:

- Creation (Srishti)
- Preservation (Sthiti)
- Destruction (Samhara)
- Concealment (Tirobhava)
- Grace and Liberation (Anugraha)

This is not mythology alone—it is a **systemic worldview**. A universe driven by cycles, balance, feedback, and transformation. At its core, Nataraja symbolizes **intelligence in motion**—adaptive, contextual, and purposeful



The Parallels with Artificial Intelligence



Modern AI follows a strikingly similar pattern.

- Models are trained (created)
- Knowledge is stored and maintained (preserved)
- Irrelevant data and errors are discarded (destroyed)
- Latent representations hide and reveal meaning (concealment)
- Outcomes guide decision-making and insight (grace)

Al, like the cosmic dance, operates through feedback loops, dynamic equilibrium, and continuous transformation.

Yet there is a crucial difference.

Machines compute. Humans understand.

Tecosys' Belief Intelligence Must Have Roots

At Tecosys, while we pioneer next-generation Al—through architectures like **Nutaan H-RAM** (**Humanized Reasoning & Memory Architecture**)—we do not view intelligence as merely statistical or mechanical.

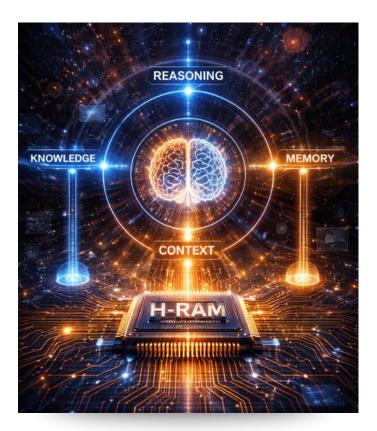
We believe intelligence must be:

- Rooted in reasoning
- Anchored in memory
- Aligned with human values
- Aware of consequence and restraint

In this sense, Shiva's symbolism becomes deeply relevant.

Nataraja stands upon **Apasmara**, the demon of ignorance—not to destroy knowledge, but to suppress illusion. This mirrors our mission to suppress **hallucination**, **noise**, **and false certainty in Al systems**.

"True intelligence is not endless generation. It is **disciplined expression**."



From Cosmic Order to Humanized Reasoning

The cosmic dance teaches us that unchecked creation leads to imbalance. Likewise, Al without grounding leads to misinformation, waste, and risk.

Nutaan H-RAM embodies this philosophy:

- Memory prevents repetitive chaos
- Reasoning brings order to output
- Context ensures relevance
- Restraint ensures sustainability

This is not unlike Shiva's role as both creator and destroyer—innovation with responsibility.

Intelligence as a Sacred Responsibility

In ancient thought, intelligence was never neutral. It carried **dharma**—responsibility.

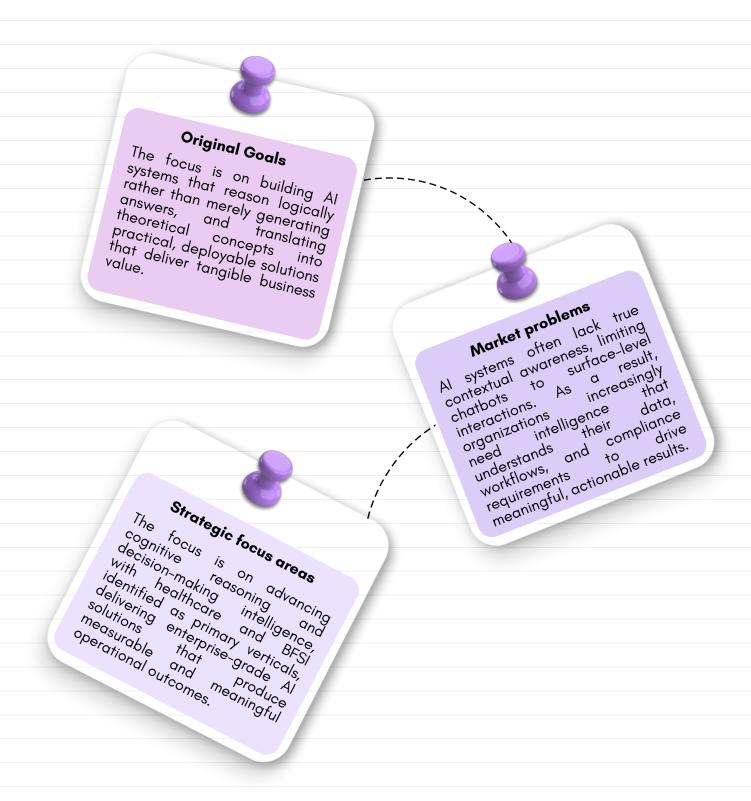
As builders of AI, Tecosys embraces this responsibility. We do not seek to replace human intelligence, nor to dominate it. Our aim is to **harmonize** with it.



Just as Nataraja's dance sustains the cosmos without ego, the future of Al must be:

- Purposeful, not reckless
- Powerful, yet restrained
- Intelligent, yet humble

OUR VISION, THEN



This vision set the foundation executing on it will require progress over time.

THE MOMENT OF REALIZATION

Not every startup fails because of a lack of technology.

Many fail because they don't know when to pivot—and how to pivot. Progress doesn't come from doing more. It comes from recognizing when something different is required. Across industries, the most successful pivots didn't abandon ideas—they refined them. They emerged when founders understood what the product truly needed to become.

Netflix stopped being a DVD company when it realized distribution wasn't the value—insight was. Amazon outgrew books when it saw infrastructure as its real strength.

Salesforce moved beyond CRM when workflows became the priority.

The pattern is consistent:

when products evolve into systems, value follows.

Nutaan was initially perceived as a standard chatbot.

While it could respond to queries, users often didn't know what to ask or how it could help beyond basic conversations. Engagement existed, but outcomes were limited.

The Pivot: From Chat to Reasoning

We reimagined Nutaan as a reasoning-driven business assistant—designed to think before it responds.

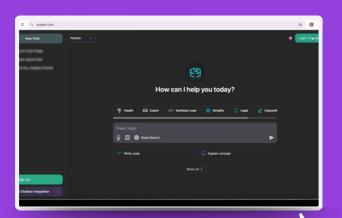
Nutaan is now trained on each organization's own knowledge, including:

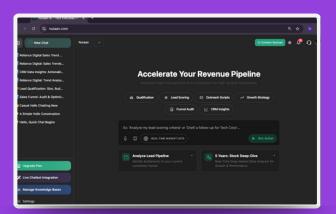
- Website content
- Documents and FAQs
- Services and workflows

Deployed as a lightweight website widget, Nutaan can be integrated in minutes—at just \$1 per day—making advanced intelligence accessible without complexity.

This shift unlocked something we hadn't seen for months:

revenue followed clarity.





MADE IN INDIA. BUILT FOR THE WORLD. READY FOR SCALE.

Expansion is not about **geography alone.** It is about relevance, readiness, and responsibility.



In **2025**, Tecosys took a decisive step toward the Indian healthcare market by initiating a pilot deployment through a vendor partnership with **AIIMS Bhopal**. This collaboration represents more than market entry—it reflects alignment with one of India's most rigorous and trusted healthcare environments.

The pilot focuses on validating **real-world impact**: how reasoning-driven intelligence can support clinical workflows, reduce documentation burden, and deliver structured, reliable outputs in a highly regulated setting. Early engagement has reinforced a critical insight—Indian healthcare demands accuracy, explainability, and trust by design.

Encouraged by this momentum, Tecosys has begun discussions with other large hospital groups across the country to assess primary interest and broader deployment potential.

These conversations are centered not on experimentation, but on scalability, compliance, and measurable operational value.

Beyond Healthcare: Enterprise Signals from BFSI

As healthcare conversations progressed, a parallel signal emerged.

The same reasoning architecture that supports clinical decision workflows has sparked strong interest within the BFSI ecosystem, particularly among Non-Banking Financial Companies (NBFCs). Discussions are actively underway to explore applications in risk reasoning, document intelligence, underwriting support, and compliance-driven decisioning.

This convergence across healthcare and BFSI reinforces a core Tecosys belief: when intelligence is structured, explainable, and

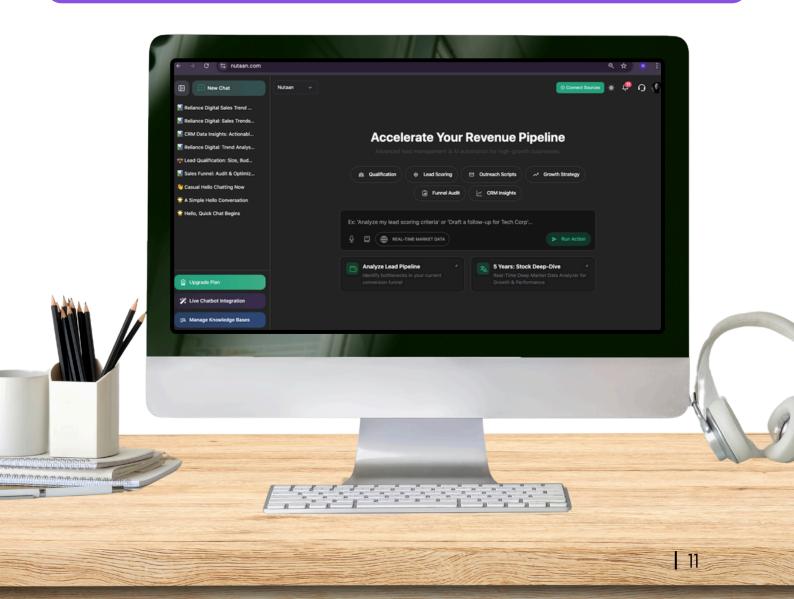
when intelligence is structured, explainable, and context-aware, its value transcends industries.



BUSINESS VALUE

Every Conversation Results in Measurable Value

Nutaan identifies visitors who have demonstrated high levels of intent, identifies areas in which customers are most likely to abandon websites and encourages visitors to take action in the form of: (a) participating in further conversations; (b) continuing their online shopping experience; (c) continuing with their online checkout process; or (d) reaching out to a live agent via phone or online chat. Nutaan also creates feedback loops between teams and improves decision-making and business performance.



NUTAAN LIVE CHAT WIDGET

From Anonymous Visitors to Paying Customers

Nutaan Live Chat Widget is an advanced, Al-powered smart website assistant designed to convert passive visitors into meaningful conversations—and conversations into customers. Unlike traditional chat widgets, Nutaan understands intent, context, and behavior in real time. It engages visitors proactively, answers intelligently, qualifies leads automatically, and guides users toward the right action—booking a meeting, requesting a demo, or making a purchase.



REAL IMPACT, REAL OUTCOMES

01

Operational Impact

The solutions enable significant reduction in time spent on paperwork, documentation, and process-level decision-making across healthcare workflows, while also accelerating risk assessment and underwriting processes within the BFSI sector.

02

Accuracy & Intelligence

The approach emphasizes structured outputs that replace informal, dialogues, combined with context-sensitive responses that enhance clarity, reliability, and confidence in decision-making across enterprise use cases.

03

Business Results

Nutaan enhances lead generation and lead qualification for small and medium businesses by capturing more meaningful customer intent, while increasing customer interactivity through thoughtfully designed, guided engagement experiences that drive deeper and more productive user interactions.

04

Customer Experience

The objective is to eliminate noise and deliver clarity through Al systems that actively guide users toward clear, actionable next steps, rather than leaving them at conversational dead ends.

What This Year **Taught Us**



Technical Constraints

Development of reasoning systems which reliably scale across multiple domains, require rethinking in terms of architecture, evaluation and interpretability.



Business challenges

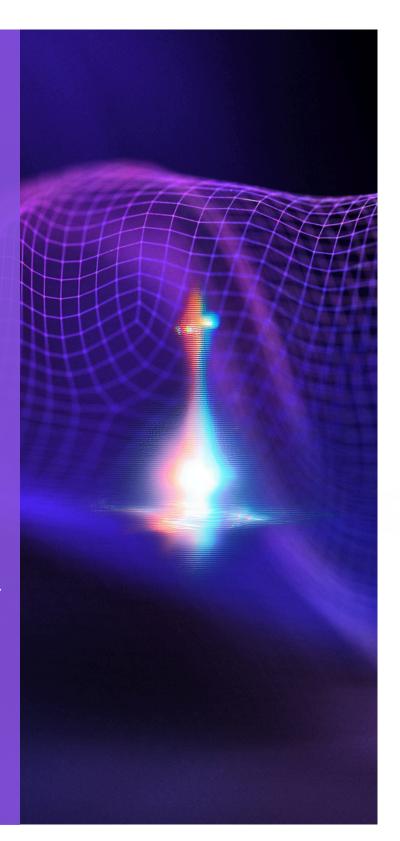
Educating the market especially at initial conversations (selling) on the difference between conversational AI and 'reasoningdriven' intelligence.



Tecosys's adaption

We've shifted our approach to focus on tangible outcomes rather than technical details, prioritizing proven pilots over future promises. By tightening feedback loops between users and product development, we're ensuring our solutions evolve directly from realworld needs and results.

Both our product and our viewpoint benefited from these challenges.



Testimonials

From Our Team

What Our Team Sees and Shares



"As the Chief People Officer at Tecosys, I'm proud to be part of an organization that genuinely values its people. The culture promotes collaboration, trust, and continuous learning, creating a positive and motivating work environment. I appreciate the openness to ideas and the strong sense of ownership across teams. Working with such passionate and driven individuals has been inspiring. The leadership mindset supports transparency and long-term growth. I look forward to strengthening our people practices and building high-performing teams. Together, we are creating a culture that drives impact and shared success."

Aniket Boke Chief People Officer



Tecosys is having a visionary and a hardworking team.

Everyone is working hard for collective growth.

Entire team works as a family and they are seriously dedicated towards their duties and responsibilities. It's an honor to be a part of the family full of geniuses.

Aayush Kashive Chief Product Officer



"This year at Tecosys has been a journey of learning, collaboration, and growth. We worked together to solve real-world problems, fix bugs, and continuously improve our systems. The guidance and support from senior team members made every challenge a valuable learning experience. It truly felt like growing and building together as a team."

AdityaTiwari Developer



Working with Tecosys has been a very positive experience; this organization has a team of individuals who utilize strategic and tactical skills together to solve customer problems. The team is highly focused on addressing real business issues instead of just developing technology without a purpose. Their commitment to discipline, willingness to accept feedback and an emphasis on measurable outcomes allow them to be reliable and progressive partners.

Anusha Roy Technical Content Writer



Joining Tecosys as a new team member has been one of the most transformative experiences of my professional journey. From day one, I was welcomed into an environment where collaboration isn't just encouraged it's woven into the very fabric of how we work. The senior team members have been more than just colleagues; they've been mentors, guides, and genuine supporters who invested their time and expertise to help me grow. Every challenge we faced together, whether debugging complex systems or architecting new solutions, became a meaningful learning opportunity rather than just another task to complete.

What truly sets Tecosys apart is the culture of understanding and mutual respect that permeates every interaction. There's a genuine care for each person's development, and you can feel that everyone is invested not just in the success of projects, but in the growth of the people behind them. The senior team's guidance has been invaluable they've created a space where asking questions is encouraged, mistakes are treated as stepping stones, and continuous improvement is celebrated.

Munjal Sharma

Graphics Designer

From Our Clients

Words from Our Client



I am greatful to have interacted with the team (Tecosys) , The members are interactive ,focused and uphold highest standards of professionalism. I would like to congratulate the CEO and the founder for having had such a thoughtful and impactful technological company . My dream is to see much innovations from the company.

I have a strong believe that Tecosys will go far and as a consultant imaging Engineer (Biomedical engineer), Tecosys will do great milestones.

I am happy as Tecosys mission aligns with the recent technology we need to adapt in today's technology.

George Muendo Maweu
Founder | CEO(Geondotech Solutions)
Consultant biomedical Engineer



Yes, Nutaan Live Chat Widget is working fine, we are learning and implementing new things on website, along with training your chatbot.

Shankar Dange Partner of Nature Nuskha



Tecosys and Avishek I know as builders who focus on execution, not just ideas. The team brought structure and clarity to complex clinical workflows through the H-RAM architecture, reducing operational friction and enabling our teams to consistently deliver high-quality care at scale.

Josh Peters VP of Bluestone Physician Services



Health equity requires more than technology—it requires intelligence that understands context. Tecosys is building exactly that, enabling better care delivery across diverse and underserved environments. I'm proud to be part of this remarkable team advancing meaningful, equitable healthcare.

Scott Milligan Managing Director of Principled Research Resources, L3C

Former Team Members

No Longer Together, Still Connected



Tecosys entered my life as a defining turning point. At a time when belief was scarce, the organisation placed its trust in me—and that trust changed everything. It shaped not only my career but the person I have become today. Through challenges that demanded resilience and moments that required clarity amid uncertainty, Tecosys became a space for growth in every sense, allowing me to learn, evolve, and find my footing while navigating it all.

Tania Bhattacharjee



Working as an intern at Tecosys has been an exceptional experience. The company has mastered the art of creating a full 'office vibe' even while working from home, perfectly bridging the gap between remote flexibility and professional discipline. Our daily opening and closing meetings keep us aligned, while the weekly team-building sessions foster a genuine sense of family. It is rare to see such seamless connectivity between everyone, proving that at Tecosys, we are one cohesive unit regardless of our roles.

Ishant Agrawal

Guest Voices

Views from Industry & Academia



Technology must be paired with human empathy and contextual understanding. All is not a replacement for human engagement, but a tool that can enhance it when used responsibly. Approaches such as those pursued by Tecosys—where intelligence is designed with reasoning, structure, and human context at its core—reflect how technology can meaningfully support, rather than diminish, human systems.

Prof. Suman Chakraborty
Director, IIT Kharagpur



In finance, technology is only valuable when it improves judgment, reduces risk, and enhances execution. Al should support disciplined decision-making—not replace it. What stands out in Tecosys' approach is the focus on reasoning, structure, and accountability, which are critical for deploying intelligence responsibly in financial and assetmanagement environments.

Kurt R. (Kurt) Yap, CPA, MST Founder at KRY Capital Asset Management



Technology should strengthen systems, not complicate them. In public service and law enforcement, Al must be applied with clarity, discipline, and accountability. When used responsibly, it can support faster decision-making, reduce operational strain, and allow human judgment to remain central to every action.

Debashish Beij Ex- IPS, Sealdah GRP

Guest Voices

Views from Industry & Academia



I do not view Artificial Intelligence as magic. It is something that is built—layer by layer—through human thought, discipline, and design. Its value does not come from mystique, but from how responsibly and purposefully it is engineered. What matters is not how impressive AI appears, but how well it serves real human and institutional needs."

Prof. Dr. Tarak Kumar Bandopadhay
President of HETC Society



Artificial Intelligence will define the next phase of institutional growth, but only when it is built with discipline, purpose, and responsibility. What I see in Tecosys is not just technological ambition, but a thoughtful approach to intelligence—one that prioritizes reasoning, trust, and real-world impact. Their focus on building AI systems that solve practical problems, rather than chasing hype, reflects the kind of innovation that will endure and create meaningful value across sectors.

Goutam Roy Chowdhury
Founder of Techno India Group

Gallery





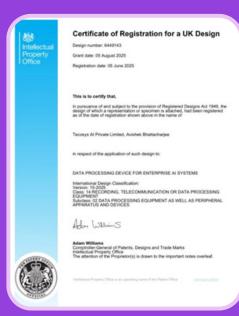








ACHIEVEMENTS



UK Design Patent (Granted)



3rd prize, BPUT Hackathon 2025



Indian Utility Patent (Published)

THE PEOPLE BEHIND THE PROGRESS



















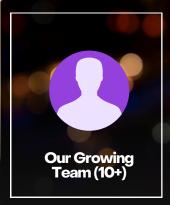












The Road Ahead

Strategic Priorities

Tecosys will build business-critical applications for BFSI and Healthcare sectors, focusing on compliance-driven workflows (PCI, HIPAA) and business branching strategies. Nutaan will expand its reasoning capabilities and evolve into an embedded intelligence engine for enhanced contextual interpretation.

Areas of Investment

Advanced reasoning systems will evolve beyond quick answers to deliver structured, explainable solutions for complex enterprise needs. Nutaan will prioritize security, regulatory compliance (PCI, HIPAA), and performance while building strategic partnerships for sustainable ecosystem growth.

Long Term
Vision

Tecosys aims to build the systems that organizations will rely on to reason, decide and do the right thing. Every layer of Tecosys AI Platform will have Transparency, Accountability, and Ethical Design embedded.



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Conclusion The Intelligence We Choose to Build

Artificial Intelligence is no longer a distant concept—it is shaping decisions, economies, healthcare, governance, and human interaction. As Al has evolved from early theory to the generative era, one truth remains clear: intelligence without direction is incomplete.

The challenge today is not building powerful machines, but building them wisely.

At Tecosys, we believe the future of Al lies in humanized reasoning, responsible memory, and context-aware systems that understand consequence and restraint. Nutaan H-RAM embodies this vision—designed to reduce noise, minimize hallucination, conserve resources, and align intelligence with real human needs.

Inspired by the symbolism of **Nataraja**, we recognize that innovation must balance creation and restraint. Progress must move forward, but also know when to pause.

As we approach AGI, the question is no longer whether machines can think, but how—and why—they should think. The future belongs to intelligence that is **grounded**, **sustainable**, **and purpose-driven**.

At Tecosys, we are building that future—where wisdom guides silicon, intelligence serves humanity, and progress moves in harmony with the world it inhabits.

Gratitude & Forward Momentum

We want to thank our customers, business partners, and anyone else who picks Tecosys early on when they couldn't see the results yet. Thanking the Tecosys Team for their commitment to rigorous and purposeful work rather than fast, easy work. Going forward, we will be looking at the future with clear understanding and strong belief in what we can achieve.

Prepared by **Munjal Sharma, our graphic designer**, and Co-Prepared by **Anusha Ray, our technical content writer**.

We move forward—not just with technology, but with purpose!







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