



"STEM delivered sovereign, 100% accurate AI using domain specific models on energy efficient, CPU based, sustainable infrastructure without compromising performance."

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Tata Elxsi engaged The STEM Practice Company to evaluate the use of domain-specific AI models for a complex healthcare coding challenge. Using STEM's CordiCoder solution, we observed 100% accuracy in ICD coding outputs, with no hallucinations, inconsistencies, or non-deterministic behaviour. This level of precision is critical for enterprise and regulated use cases, and STEM's approach clearly demonstrated its strengths in this area.

What impressed us most was STEM's architectural philosophy. Rather than relying on large, generic models and GPU-heavy infrastructure, STEM demonstrated how small language models (SLMs) and custom domain-trained models can deliver superior accuracy while running efficiently on standard CPUs and even edge devices. This significantly lowers infrastructure complexity and cost, while improving reliability and predictability.

Through this engagement, we gained strong confidence that STEM's approach—combining domain expertise, deterministic AI behaviour, and lightweight deployment—represents the right path forward for many of our enterprise and industry-specific AI initiatives. STEM's work validated our belief that specialized models outperform general-purpose AI in real-world business applications.

We see significant potential in extending STEM's SLM-based solutions across additional use cases and industries, and we value STEM as a trusted provider of practical, scalable, and production-ready AI systems.

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