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Siemens Energy Industrial Turbomachinery India Private Limited

Braunschweig, Germany

Application for Generative AI Specialist – Siemens Energy

My application for the Generative AI Specialist position at Siemens Energy is driven by a direct alignment with your need for an AI professional focused on scalable, impactful solutions. My work philosophy centers on system ownership, automation, and maximizing throughput, treating inefficiency as a structural failure. I specialize in architecting and deploying autonomous agentic systems and robust backend infrastructure, a skillset directly applicable to driving value from data within the energy industry.

- My expertise lies in building self-replacing agentic systems using LangGraph, LangChain, and LangSmith, favoring deterministic multi-agent workflows with explicit state control and persistent, asynchronous execution. Projects like the AI-Powered Reels Pipeline, which reduced production time by 20x and achieved 500K+ views, and the AI Research Assistant, cutting manual research load by 50%, demonstrate my capacity to deliver high-impact Generative AI solutions at scale, directly addressing the 3-6 years experience requirement through tangible output.
- My backend engineering stack, centered on Python and FastAPI with Postgres, Redis, and MongoDB, ensures modularity, testability, and production readiness. In RAG-based architectures, I maintain tight control over memory and pipeline flow using Qdrant or FAISS. My approach to ML model development integrates them into end-to-end pipelines, avoiding black-box reliance. DevOps workflows with Docker, Git, and CI/CD, scaled via GCP, enforce uptime guarantees and reproducible environments, aligning with your need for solution deployment and cloud computing.
- My cognition is optimized for throughput, coding 15+ hours daily to maintain deep fluency in agentic architecture, infrastructure logic, and automation pipelines. I prioritize autonomous infrastructure, long-term leverage, and absolute control over execution environments. My philosophy is binary: if it doesn't scale, it's discarded; if it doesn't generate recurring value without oversight, it's re-architected. This drive for durable, measurable output ensures I architect complete agentic flows and graphs solo, delivering results that compensate for traditional experience metrics.

My profile aligns with Siemens Energy's vision for driving the energy transformation through advanced AI. I am prepared to contribute immediately to developing and implementing innovative Generative AI solutions that provide strategic advantages and drive maximum value from data. I am confident my technical depth and execution-oriented approach will significantly impact your team.

Warm regards,

Aditya Ghanashyam Ladawa