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Seedbox

Application for Gen AI Solutions Engineer

My name is Aditya Ghanashyam Ladawa, and I am applying for the Gen AI Solutions Engineer position at Seedbox. My engineering philosophy centers on system ownership, automation, and scalable execution, treating inefficiency as a structural failure. I build robust, high-throughput AI infrastructure that delivers measurable value and operates autonomously, aligning with Seedbox's mission to transform the German Mittelstand through AI.

- My core expertise lies in architecting self-replacing agentic systems using LangGraph, LangChain, and LangSmith. I focus on deterministic multi-agent workflows with explicit state control and persistent execution, enabling autonomous document retrieval, processing, and insight generation. I develop Python-based AI solutions leveraging open-source models like Meta Llama and closed-source APIs, including OpenAI's GPT-4o, relevant to this role.

- My backend stack is Python and FastAPI, complemented by PostgreSQL, Redis, and MongoDB, with Qdrant for RAG architectures. I prioritize modularity, testability, and production readiness. My DevOps workflows, including Docker, Git, and CI/CD on GCP, ensure seamless integration and continuous monitoring of deployed AI models, ensuring uptime and reproducible environments.

- I develop machine learning models using TensorFlow, PyTorch, and scikit-learn, integrating them into end-to-end pipelines. My computer vision stack, encompassing OpenCV, FFmpeg, PIL, Real-ESRGAN, and MediaPipe, enables real-time video processing and autonomous feedback systems. This enables me to design, train, and optimize models, adapting algorithms to project requirements and ensuring high-quality data input.

- My projects demonstrate a commitment to building impactful, automated solutions. The AI-Powered Reels Pipeline, an agent-driven system, autonomously scripts, edits, captions, and publishes content, reducing production time by 20x and costs to under $0.15 per video. The AI Research Assistant, a full-stack agentic system, reduced manual research load by 50% and achieved 5x token efficiency, showcasing my ability to translate business needs into high-performance solutions.

My approach to engineering is binary: if it doesn't scale, it's discarded; if it doesn't generate recurring value without oversight, it's re-architected. This focus on bandwidth, system durability, and measurable output aligns with Seedbox's innovative spirit and commitment to delivering tailored generative AI solutions. I am confident my technical depth and execution-oriented mindset would significantly contribute to your team's mission.

Warm regards,

Aditya Ghanashyam Ladawa