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BLACKFIELD AI AG

Application for AI Engineer Position

My application is for the AI Engineer position at BLACKFIELD AI AG. My expertise lies in architecting and deploying scalable AI and backend systems, with a focus on agentic architectures, automation, and robust production readiness. My work philosophy centers on system ownership and maximizing throughput, aligning with the strategic and implementation demands of this role.

- I specialize in building self-replacing agentic systems using LangGraph, LangChain, and LangSmith. These systems are designed for deterministic multi-agent workflows, explicit state control, and autonomous handling of tasks like document retrieval, multimodal processing, and insight generation. My experience includes developing custom agent architectures and RAG systems, as demonstrated by the AI Research Assistant project, which achieved 5x token efficiency and a 4% gain in complex multi-step reasoning.

- My backend engineering stack is built on Python and FastAPI, ensuring modularity, testability, and production readiness for all deployments. I have experience integrating complex AI models into existing system landscapes, developing robust API-supported applications, and ensuring tight control over memory and pipeline flow in RAG-based architectures using Qdrant or FAISS.

- I prioritize building infrastructure that scales and generates recurring value without oversight. This includes developing fully automated content pipelines for Instagram and YouTube, which are agent-driven systems handling scripting, editing, captioning, and publishing autonomously. My approach to DevOps, utilizing Docker and GCP for reproducible environments and uptime guarantees, supports the translation of strategic requirements into scalable AI solutions and the rapid prototyping of new technologies.

My background in data science, coupled with a deep commitment to building durable, high-throughput systems, positions me to contribute immediately to BLACKFIELD AI AG's mission. I am prepared to take direct responsibility in customer projects, from analysis to solution presentation, and am keen to discuss how my technical capabilities and execution-oriented mindset can benefit your team in Bremen.

Warm regards,

Aditya Ghanashyam Ladawa