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Volkswagen Infotainment GmbH

Application for Working Student Position - AI Development

The AI development working student position at Volkswagen Infotainment GmbH represents an opportunity to contribute to mobility innovation while maintaining focus on scalable AI systems. My background in agentic architecture, backend engineering, and autonomous pipeline development aligns directly with your requirements for AI software implementation and process optimization. Currently pursuing MSc Data Science at TU Braunschweig, I bring production-ready experience in building self-replacing systems that operate without runtime dependencies.

- Developed AI software using Python with extensive REST API integration including OpenAI APIs, Google Vertex AI, PubMed APIs, and GroqAPI. Built FastAPI-based backend systems with asynchronous execution patterns, demonstrating practical application of API technologies for AI service orchestration and data exchange protocols.
- Implemented generative AI solutions using LangGraph, LangChain, and neural networks including CycleGAN and MobileNet SSD architectures. Recent biomedical research assistant achieved 94% metric extraction accuracy through multi-agent coordination, while automated content pipelines generated 500K+ views by leveraging generative AI for autonomous content creation.
- Built agentic systems that autonomously handle document retrieval, multimodal processing, and insight generation without runtime LLM dependency. These deterministic workflows reduced literature screening time by 60-90% and production time by 20x, demonstrating capability for AI software development that optimizes administrative and IT processes.
- Created comprehensive technical documentation and published research on real-time robotic systems achieving sub-100ms latency. Experience includes workshop participation through hackathon projects and collaborative development environments, showing readiness for meeting participation and technical exchange within team structures.

The position offers an environment where technical execution meets innovation in mobility solutions. My approach to building deterministic, testable systems with explicit state control aligns with the infrastructure requirements of automotive AI applications. Ready to contribute to Volkswagen's digital development while advancing autonomous system capabilities that scale beyond prototypes.

Warm regards,

Aditya Ghanashyam Ladawa