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24. July 2025

GaussML

Application for Working Student Software Development Position

Your approach to manufacturing efficiency through AI-driven solutions aligns with my experience building autonomous systems that eliminate manual processes. Having developed agent-based architectures that reduce operational overhead by 60-90%, the opportunity to optimize GaussML's internal operations while contributing to industrial AI advancement presents an ideal intersection of technical growth and practical impact.

- Built fully automated content pipelines using LangGraph and LangChain that handle scripting, editing, and publishing without human intervention, demonstrating proficiency with AI-assisted development workflows. This experience directly applies to researching and implementing low-code/no-code platforms for internal tool optimization.
- Developed agent-based systems with 94% accuracy in biomedical literature processing, including automated filtering and metadata extraction. This systematic approach to workflow automation translates to identifying recurring tasks in sales, marketing, and operations that benefit from AI-driven optimization.
- Created production-ready FastAPI backends with PostgreSQL and Redis integration, plus experience with Docker containerization and CI/CD pipelines. Technical foundation includes Python expertise, Git workflows, and TDD practices required for developing custom internal tools when market solutions prove insufficient.
- Research experience includes comparative analysis of AI architectures and tool evaluation for optimal performance metrics. Current MSc Data Science studies at TU Braunschweig provide academic grounding while hands-on project work demonstrates practical application of emerging AI platforms and development tools.

The technical challenge of email classification resonates with previous work in document processing and automated categorization. A hybrid approach using NLP preprocessing with spaCy, followed by fine-tuned classification models, combined with rule-based fallbacks for edge cases, would ensure reliable categorization while maintaining adaptability. Integration with existing email systems through APIs would enable seamless workflow automation. Looking forward to discussing how systematic automation principles can accelerate GaussML's operational efficiency.

Warm regards,

Aditya Ghanashyam Ladawa