

## **Aditya Ghanashyam Ladawa**

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### **Demodesk**

#### **Application for AI Automation Engineer Intern Position**

Writing to express interest in the AI Automation Engineer Intern position at Demodesk. Your mission to build intelligent meeting platforms and AI sales agents aligns directly with experience in agentic system architecture and automation pipeline development. The role's focus on practical AI implementations and workflow automation matches demonstrated capabilities in building scalable, production-ready systems that generate measurable efficiency gains.

- Built fully automated content generation pipelines that reduced production time by 20x (from 6+ hours to under 20 minutes per output), achieving cost efficiency of <\$0.15 per unit while scaling to 500K+ views across platforms. This demonstrates the exact automation mindset Demodesk requires—identifying bottlenecks, implementing AI-driven solutions, and measuring tangible impact.
- Developed hierarchical multi-agent systems using LangGraph and LangChain that coordinate 5+ specialized agent teams for code generation, RAG, web search, and memory orchestration. These systems achieve 94% accuracy in complex reasoning tasks while maintaining 5x token efficiency—directly applicable to Demodesk's need for intelligent automation and AI tool integration.
- Currently architecting AI research assistants that reduce manual research workload by 50% through automated literature screening, metadata extraction, and summarization. Experience includes seamless integration with APIs, Git repositories, and CI/CD pipelines—core requirements for automating development workflows and ticket resolution systems.
- Technical foundation spans Python automation, FastAPI backends, and integration architectures with proven deployment on production environments. Familiar with prompt engineering, model optimization, and system monitoring—essential for continuously improving AI-generated outputs and maintaining automation quality standards.

The combination of MSc Data Science studies at TU Braunschweig and hands-on experience building monetizable AI systems provides the technical depth and execution mindset this role demands. Ready to contribute immediately to Demodesk's automation initiatives, streamline operational workflows, and help establish new standards for AI-driven sales enablement. Available to discuss how these capabilities can accelerate Demodesk's mission to redefine intelligent customer interactions.

Warm regards,

Aditya Ghanashyam Ladawa