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23. July 2025

SÜDKURIER GmbH

Application for Data Science Intern Position

The intersection of data science and journalism presents a compelling opportunity to reshape how local media operates at scale. Your focus on personalized recommendations, predictive modeling, and LLM integration for editorial optimization aligns directly with my experience building agentic AI systems and data-driven automation pipelines. Having developed end-to-end ML solutions that process, analyze, and generate insights autonomously, I am positioned to contribute meaningfully to SÜDKURIER's digital transformation objectives.

- Built a biomedical literature research assistant using hierarchical agent architecture with LangGraph and LangChain, achieving 94% accuracy in metadata extraction and reducing manual screening time by 60-90%. This demonstrates proficiency in complex data processing pipelines and automated insight generation that translates directly to editorial content analysis and recommendation systems.
- Developed computer vision pipelines processing 3D medical scan data with CycleGAN harmonization and Real-ESRGAN super-resolution, reducing noise by 96%. This experience with large-scale data processing and ML model integration provides the technical foundation for handling media content optimization and user behavior analysis at SÜDKURIER's scale.
- Created a fully automated content generation system that reduced production time by 20x while maintaining quality standards, reaching 500K+ views across social platforms. This project demonstrates understanding of content lifecycle optimization and audience engagement metrics crucial for developing personalized article recommendations and retention strategies.
- Engineered real-time pose monitoring systems with 99% accuracy using TensorFlow, OpenCV, and MediaPipe, processing video streams at 9 FPS with sub-100ms latency. This real-time processing experience is directly applicable to developing responsive editorial dashboards and implementing ML-driven content personalization features.

My technical stack centers on Python, FastAPI, and modern ML frameworks including PyTorch and TensorFlow, with experience in both classical ML and LLM integration. Having worked with complex data pipelines, automated reporting systems, and predictive modeling, I am prepared to contribute to your CRM analytics, cancellation prediction models, and editorial optimization initiatives. The opportunity to work on a thesis project while developing production-ready ML solutions for local journalism represents an ideal alignment of academic rigor and practical impact.

Warm regards,

Aditya Ghanashyam Ladawa