



R A P H A E L S C H M I T T

COMPUTER SCIENTIST

CORE FOCUS AREAS

- Natural Language Processing (NLP) & Language Models
- Information Retrieval & Search System Architecture
- AI Infrastructure & GPU/HPC Workflows
- Clinical NLP & Medical Informatics
- Imaging Technologies & Volume Rendering

CORE COMPETENCIES

- Strong analytical skills & deep process understanding
- Strategic, conceptual and systems-oriented thinking
- Pragmatic, solution-driven execution
- Mentoring, coaching & team leadership
- Clear, confident communication & presenting
- High ownership, independence and hands-on mindset

PROFESSIONAL ACTIVITIES

- Development of domain/language-specific NLP/LLM models (e.g., GottBERT, PortBERT, SindBERT)
- Engineering robust data-processing and automation pipelines
- Applying modern AI/ML tools for workflow optimization
- Designing secure architectures for sensitive data environments
- Developing open-source software for research and industry
- Delivering lectures, workshops and technical training
- Modernizing and optimizing digital platforms and backend systems
- Collaborating with interdisciplinary teams to solve technical challenges
- Mathematical modeling and optimization

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