Rajna Fani

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EDUCATION

Technical University of Munich Munich, Germany
Master of Science, Computer Science (Major: Machine Learning) *Graduating Nov 2025*
- Master Thesis Research at the Lab for Computational Physiology (LCP) at Massachusetts Institute of Technology (MIT)
- Erasmus Exchange Semester at Aalto University, Helsinki

Ludwig Maximilian University of Munich Munich, Germany
Bachelor of Science, Computer Science (Minor: Computational Linguistics) *April 2019 - October 2022*

WORK EXPERIENCE

Massachusetts Institute of Technology Cambridge, USA
Visiting ML Researcher in Healthcare *December 2024 - Present*
- Developing ML models for clinical data imputation by adapting the LabMAE architecture within the MEDS-Torch pipeline, enabling masked value prediction for lab data in the ICU.
- Collaborating with the LCP to prototype a flexible NLP pipeline for contextual sentiment analysis of clinical notes using few-shot prompting and hybrid encoder-decoder models

Rohde & Schwarz Munich, Germany
AI/ML Engineer Working Student *August 2024 - March 2025*
- Developed and optimized a RAG pipeline AI assistant by integrating LLMs, vector databases, and embedding-based retrieval
- Automated machine learning pipelines for large-scale data extraction, preprocessing, and evaluation across structured and unstructured technical documentation

SAP Munich, Germany
AI Research Intern *September 2023 – July 2024*
- Developed an HR Q&A chatbot in collaboration with TUM, using SAP's AI environment to reduce internal HR ticket volume
- Improved ticket resolution performance by 30% through iterative evaluation and optimisation using advanced NLP metrics

Get-Ikigai Munich, Germany
NLP Engineer Working Student *September 2023 – August 2024*
- Built NLP pipelines to analyse AI–user chats using sentiment analysis, topic modelling, and clustering
- Improved agent feedback loops by evaluating conversational patterns and user intent

CGI DE Munich, Germany
Software/AI Engineer Working Student *May 2022 - December 2023*
- Enhanced *My BMW* and *MINI* Apps with real-time vehicle updates and user experience optimization (Android development)
- Pioneered NLP for log analysis, cutting error identification times by 20%, and leading NLP strategy for crucial projects

PROJECTS

NAACL @DASH 2024 – Best Paper Award Mexico City, Mexico
Conference Paper Co-author *September 2023 – July 2024*
- Co-authored a NAACL @DASH 2024 paper on human-in-the-loop optimisation of RAG-based HR chatbots.

EXTRACURRICULAR ACTIVITIES

MIT Critical Data Worldwide
Participant & Mentor *July 2024 – Present*
- Mentoring interdisciplinary teams in Healthcare Datathons, applying AI methods to solve real-world clinical challenges
- Engaged in events hosted at Balgrist University Hospital (Zurich), Hospital Clínic de Barcelona, Harvard (Cambridge), Duke (Durham), and Brown University (Providence)

OlyNet Student Organization Munich, Germany
Chief Technology Officer *July 2022 - October 2024*
- Supported Olympic Village IT by setting up routers for over 100 new students

TUM.ai Student Initiative Munich, Germany
Team Lead of Marketing Department & Alumni *April 2023 - Present*
- Boosted TUM.ai's digital presence, increasing Instagram impressions by 43.3% and LinkedIn page views by 49.7%

LANGUAGES

Albanian - native	German - fluent (C1)	English - fluent (C1)	Italian - intermediate