Yarik Menchaca Resendiz

Stuttgart, Germany

Website

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PROFILE

I'm a Ph.D. candidate in Computational Linguistics with a focus on NLP, LLMs, and AI. I have experience in both academic and industry research, specializing in AI/ML development, prompt optimization, and NLP application deployment. I enjoy applying my skills to solve practical problems through research and AI-driven solutions.

EDUCATION

University of Stuttgart Jul 2021 - Dec 2024
Ph.D. in Computational Linguistics.

Instituto Politecnico Nacional Graduate in December 2017
Master's degree in Computer Science. *GPA 9.8/10*

Instituto Politecnico Nacional Graduate in December 2015
Bachelors in computer engineering. *GPA 8.3/10*

PROFESSIONAL EXPERIENCE

Graduate Research Assistant | Otto-Friedrich-Universität Bamberg, Germany Apr 2024 - Present
Conducted research on prompt optimization methods for language models and managed cloud GPU server environments for large-scale language model deployment.

Graduate Teaching Assistant | University of Stuttgart, Germany Apr 2022 - Mar 2024
Taught, evaluated, and supervised bachelor's and master's students in Natural Language Processing courses, including Information Retrieval and Teamlab, focusing on practical applications and research mentorship.

Data Scientist | Kantar, Mexico Jun 2018 - Oct 2021
Researched and developed AI/ML methodologies for large language models, chatbots, text mining, basket analysis, and prediction.
- Created a natural language processing application for 10 languages.
- Implemented machine learning techniques such as deep neural networks, regression, and decision trees.

Research Intern | University of Wolverhampton, UK Feb 2017 - Aug 2017
Developed a sentiment analysis application for Spanish texts.

PUBLICATIONS

- IMS_medicALY at #SMM4H 2024: Detecting impacts of outdoor spaces on social anxiety with data augmented ensembling. In Dongfang Xu and Graciela Gonzalez-Hernandez, editors, Proceedings of The 9th Social Media Mining for Health Research and Applications (SMM4H 2024) Workshop and Shared Tasks, pages 83--87, Bangkok, Thailand, August 2024. Association for Computational Linguistics.

- What makes medical claims (un)verifiable? analyzing entity and relation properties for fact verification. In Yvette Graham and Matthew Purver, editors, Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics (Volume 1: Long Papers), pages 2046--2058, St. Julian's, Malta, March 2024. Association for Computational Linguistics.

- Affective natural language generation of event descriptions through fine-grained appraisal conditions. In Proceedings of the 16th International Conference on Natural Language Generation, Prague, Czech Republic, September 2023. Association for Computational Linguistics.

- Emotion-conditioned text generation through automatic prompt optimization. In Proceedings of the 1st Workshop on Taming Large Language Models: Controllability in the era of Interactive Assistants!, Prague, Czech Republic, September 2023. Association for Computational Linguistics.

LANGUAGES

Spanish: Native language **French:** Advanced
English: Advanced **Italian:** Basic
German: Basic

SKILLS

Programming languages

8 years: Python	5 years: Git
1 year: C++, C#, Java, MYSQL, R, .Net	3 years: Docker, Microsoft Azure

COURSES & CERTIFICATIONS

Python programmer Jr.	Artificial Intelligence Foundations: Thinking Machines
Deep Learning in Python	Custom Model, Layers, and Loss Functions with TensorFlow
Advance Deep Learning with Keras	Introduction to Recommender Systems
Learning TensorFlow with JavaScript	Natural LanguageProcessing
Building Deep Learning Applications with Keras 2.0	Design database MYSQL
Introduction to Deep Learning with OpenCV	R Statistics Essential Training
TensorFlow Developer	Linux administrator
Introduction to TensorFlow for Artificial Intelligence.	Introduction to R
Sequences, Time Series and Prediction	Data Analysis in R, the data.table Way
Natural Language Processing in TensorFlow	Big Data Processing, Data exploration with Scala and Apache Spark
Convolutional Neural Networks in TensorFlow	Financial Markets
Machine Learning for Marketing: Essential Training	

THESIS SUPERVISION

Master Thesis - Plug and Play Domain Adaptation for Neural Machine Translation   Jan 2023 - Dec 2023

Emīls Kadiķis