JOHANNES KRUSE, PhD

Location: San Diego, CA, USA | Copenhagen, Denmark

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Summary: As a PhD candidate, I specialize in machine learning (ML), natural language processing (NLP), and recommender systems (RS). My expertise includes extensive work in sequential modeling using transformers, recurrent neural networks (RNNs), and convolutional neural networks (CNNs), as well as theoretical studies in reinforcement learning (RL) and multi-armed bandits. Expert in Python, I have applied my skills to solve real-world problems, delivering solutions that serve millions of users. I am a dedicated learner who thrives on challenges and is committed to continuous growth in my field.

PUBLICATIONS

- Johannes Kruse, Kasper Lindskow, Saikishore Kalloori, Marco Polignano, Claudio Pomo, Abhishek Srivastava, Anshuk Uppal, Michael Riis Andersen, and Jes Frellsen. 2024. RecSys Challenge 2024: Balancing Accuracy and Editorial Values in News Recommendations. In Proceedings of the 18th ACM Conference on Recommender Systems (RecSys '24). Association for Computing Machinery, New York, NY, USA, 1195–1199. https://doi.org/10.1145/3640457.3687164
- Johannes Kruse, Kasper Lindskow, Saikishore Kalloori, Marco Polignano, Claudio Pomo, Abhishek Srivastava, Anshuk Uppal, Michael Riis Andersen, and Jes Frellsen. 2024. EB-NeRD a large-scale dataset for news recommendation. In Proceedings of the Recommender Systems Challenge 2024 (RecSysChallenge '24). Association for Computing Machinery, New York, NY, USA, 1–11. https://doi.org/10.1145/3687151.3687152
- Árni Már Einarsson, Elisabetta Petrucci, Jannie Møller Hartley, and Johannes Kruse. 2024. "I must have clicked on something"
 Users' Experiences and Evaluations of Personalized News Recommender Systems. Journalism Practice. (Accepted)
- Johannes Kruse, Kasper Lindskow, Michael Riis Andersen, and Jes Frellsen. 2023. Creating the next generation of news experience on ekstrabladet.dk with recommender systems. In Proceedings of the 17th ACM Conference on Recommender Systems (RecSys '23). Association for Computing Machinery, New York, NY, USA, 1067–1070. https://doi.org/10.1145/3604915.3610248
- Sanne Vrijenhoek, Lien Michiels, Johannes Kruse, Alain Starke, Jordi Viader Guerrero, and Nava Tintarev. 2023. Report on NORMalize: The First Workshop on the Normative Design and Evaluation of Recommender Systems. In Proceedings of CEUR Workshop Proceedings (CEUR-WS.org). https://ceur-ws.org/Vol-3639/
- O **Johannes Kruse** and Lars Kai Hansen. 2019. *Det Etiske Råd Redegørelse om sundhedswearables og big data*. pp. 116–141. https://www.ft.dk/samling/20191/almdel/UER/bilag/2/2095890/index.htm

WORKSHOPS, TUTORIALS, DEMOS & OTHERS

- Johannes Kruse, Kasper Lindskow, Anshuk Uppal, Michael Riis Andersen, and Jes Frellsen. 2024. RecSys Challenge 2024: Balancing Accuracy and Editorial Values in News Recommendations. (RecSys '24). Association for Computing Machinery, New York, NY, USA, 1242–1244. https://recsys.eb.dk/
- Alain Starke, Sanne Vrijenhoek, Lien Michiels, Johannes Kruse, and Nava Tintarev. 2024. NORMalize 2024: The Second Workshop on Normative Design and Evaluation of Recommender Systems. In Proceedings of the 18th ACM Conference on Recommender Systems (RecSys '24). Association for Computing Machinery, New York, NY, USA, 1242–1244. https://doi.org/10.1145/3640457.3687103
- Alan Said, Toine Bogers, Christoph Trattner, Simen Eide, Benjamin Kille, Bruce Ferwerda, and Johannes Kruse. 2024. Nordic Personalization Workshop. https://personalizationday.github.io/2024/
- Johannes Kruse, Lien Michiels, Alain Starke, Nava Tintarev, and Sanne Vrijenhoek. 2024. NORMalize: A Tutorial on the Normative Design and Evaluation of Information Access Systems. In Proceedings of the 2024 Conference on Human Information Interaction and Retrieval (CHIIR '24). Association for Computing Machinery, New York, NY, USA, 422–424. https://doi.org/10.1145/3627508.3638319
- Sanne Vrijenhoek, Lien Michiels, Johannes Kruse, Alain Starke, Nava Tintarev, and Jordi Viader Guerrero. 2023. NORMalize:
 The First Workshop on Normative Design and Evaluation of Recommender Systems. In Proceedings of the 17th ACM
 Conference on Recommender Systems (RecSys '23). Association for Computing Machinery, New York, NY, USA, 1252–1254.
 https://doi.org/10.1145/3604915.3608757

EDUCATION

	TION			
		University of California San Diego	Research Scholar	San Diego, California, USA
		research in Prof. Julian McAuley's lab on inr		
-	-		Industrial PhD Student	Kgs. Lyngby & Copenhagen, DK
		ponsible Recommender Systems for Danish		
		is a collaboration between JP/Politiken Med	•	•
		ployed the first large-scale recommender sy	=	
		-	MSc Applied Mathematics	Kgs. Lyngby, DK
		p learning for Natural Language Processing		wledge Graph technologies with the
		enriching word embeddings. Grade: 12 (A+		10
		: Machine Learning, Advanced Modeling, Ti		
		to Danish research project WriteReader	by evaluating machine-generat	ed captions using Recurrent Neural
		nd Convolutional Neural Networks.	NASa Evahanaa Studant	Payeelane FS
-	-	Barcelona School of Informatics Deep Learning, Kernel-based Machine Lea	MSc Exchange Student	Barcelona, ES
			BSc Biomedical Engineering	, and numan canguage engineering. Kgs. Lyngby, DK
		putational Neuroimaging. Investigation of		
		ta analysis using Python programming. Grac		i variability ili defined brain states by
		vanced Engineering Mathematics, Physics, (v Medical Imaging
			BSc Exchange Student	New York, US
		: Biomechanics, Biomedical Product Develo		
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WORK	EXPERIEN	CF		
		Ekstra Bladet	Machine Learning Engineer	Copenhagen, DK
-	-	vorkshops with stakeholders to ensure aligr		
		eam that built and implemented the core re		
		Infosys Limited	InStep Intern	Bangalore, IND
		IIIIO3¥3 EIIIIItCa		
O	Developed:			
0	-	a scalable framework for a conversational se	earch component integrated into	an enterprise search engine.
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- O Stationed as an engineer in a remote Himalayan hospital in Nepal for six weeks, providing technical support and maintenance.
- Collaborated with Nepal's Ministry of Health and local hospital staff to advance the UN's 2030 Sustainable Development Goals, ensuring access to universal health benefits.

SUPERVISION AND MENTORSHIP IN DEEP LEARNING PROJECTS

- Deep learning Course, News Recommendation Systems, Technical University of Denmark (2024).
 Supervised 26 groups involving more than 100 students working on the RecSys '24 challenge as part of the deep learning course at the Technical University of Denmark, providing guidance on advanced recommender systems techniques and strategies.
 Role: Co-Supervisor.
- Zhijian Feng, 2023, Technical University of Denmark & Ekstra Bladet.
 MSc thesis: Using Image Information in Deep Learning-Based Recommender Systems for News.
 Role: Main Supervisor and Mentor.
- Magnus Waldemar Hoff Harder & Nikolaj Bach Meineche, 2023, Technical University of Denmark & Ekstra Bladet. BSc thesis: *Transformer-based News Recommendations: Leveraging User Click-History with Deep Learning.* Role: Main Supervisor and Mentor.

OTHER

Languages	Danish (native), English (fluent), Spanish (intermediate).
Programming langagues	Python (expert), R (proficient), SQL (intermediate), HTML (familiar).
Frameworks & libraries	PyTorch, TensorFlow, Hugging Face, Scikit-learn, SciPy, Polars, Pandas, MLFlow, Matplotlib, NumPy.
Interests	Culture (lived abroad in the United States, Australia, Greenland, and Spain), Climbing (certified rock-climbing
	instructor), Freediving (completed a dive to a depth of 28 meters), Hiking (almost hugged a wild bear).