

Kumar Shridhar

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EDUCATION

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- AUG '21 - DEC '24 *PhD in Computer Science, ETH Zürich*
Specialization: Machine Learning, NLP, Generative models
Supervisor: Prof. Mrinmaya Sachan
- APR '16 - JUNE '20 *Masters in Computer Science, University of Kaiserslautern*
Specialization: Machine Learning, **Minor:** Psychology

SELECTED PUBLICATIONS

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- NEURIPS '22 [Learning to Drop Out: An Adversarial Approach to Training Sequence VAEs](#)
Kumar Shridhar*, Djordje Miladinovic*, Kushal Jain, Max B. Paulus, Joachim M. Buhmann & Carl Allen
- EMNLP '22 [Automatic Generation of Socratic Questions for Math Word Problems](#)
Kumar Shridhar*, Jakub Macina*, Mennatallah El-Assady, Tanmay Sinha, Manu Kapur & Mrinmaya Sachan
- PREPRINT [Distilling Multi-Step Reasoning Capabilities of Large Language Models into Smaller Models via Semantic Decompositions](#)
Kumar Shridhar*, Alessandro Stolfo*, Mrinmaya Sachan
- ACL '21 FINDINGS [Scaling Within Document Coreference to Long Texts](#)
Raghuveer Thirukovalluru, Nicholas Monath, Kumar Shridhar, Manzil Zaheer, Mrinmaya Sachan & Andrew McCallum
- UNDER REVIEW [LongtoNotes: OntoNotes with Longer Coreference Chains](#)
Kumar Shridhar, Nicholas Monath, Raghuveer Thirukovalluru, Alessandro Stolfo, Manzil Zaheer, Andrew McCallum & Mrinmaya Sachan

WORK EXPERIENCE

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- MAY '21 - AUG '21 Applied Research Intern at **Amazon Alexa AI**
• Worked on a constrained optimization formulation for training a deep neural network with a set of hard constraints on output labels.
- JAN '20 - MAY '20 Student Researcher at **DFKI**
• Worked on designing a probabilistic activation function that improves the generalization capabilities of Neural Network. [ArXiv](#)
- OCT '18- DEC '19 Lead Researcher at **BotSupply, Denmark**
• Lead the Natural Language Processing team at BotSupply and designed the NLP platform for chatbots.

TECHNICAL SKILLS

Python, PyTorch, Tensorflow, Amazon AWS, Microsoft Azure, GCP, FastAPI, Docker, Git

OTHERS

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- Kaggle Top 1%: Rank 5 in Plant Seedling Identification challenge.
 - Contributor to the [BIG-bench](#) task to understand the capabilities of large LMs.
 - Reviewer : ICLR '20, '21, '22, NeurIPS '20, '22, EMNLP '22, AAAI '21
 - Google Cloud research grant worth 5k USD.
 - Technical Reviewer of Book: [Advanced Natural Language Processing with TensorFlow](#).

Last updated: December 7, 2022