

Kumar Shridhar

kumar-shridhar.github.io • kmr.shridhr@gmail.com • +49 176 77659867

Kurt-Schumacher Strasse 16, Kaiserslautern, Germany 67663

📧: @kumar-shridhar | **in**: @kumar-shridhar | **🐦**: @jupyterai | **📧**: Kumar Shridhar

WORK EXPERIENCE

OCT '20 - PRESENT	Natural Language Processing Researcher at ETH Zürich Research on long text comprehension using Memory Networks and attention mechanism.
MAY '20 - SEP '20	ESoWC Summer of Weather Code at European Centre for Medium-Range Weather Forecasts Detecting Anomalies in Air Quality Station (DAAQS).
JAN '20 - MAY '20	Student Researcher at Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI) Research work on Probabilistic Activation Function for Deep Neural Networks. ArXiv
OCT '18- DEC '19	Lead Researcher at BotSupply, Denmark Lead the NLP team that powers all the customers' chatbots at Bot-Supply.
JAN '18- SEP '18	Research Assistant at Insiders Technologies GmbH, Germany Part of ML team that worked on Intent classification and Entity extraction on smaller datasets.

EDUCATION

APR '16 - JUNE '20	<i>Masters in Computer Science, University of Kaiserslautern</i> Specialization: Machine Learning, Minor: Psychology Masters Thesis: Bayesian Convolutional Neural Network with Variational Inference. ArXiv
APR '19 - JUNE '19	<i>Visiting Student, Kyushu University, Japan</i> Supervisor: Prof. Seiichi Uchida, Uchida Lab
JAN '19 - MAR '19	<i>Visiting Student, Luleå University, Sweden</i> Supervisor: Prof. Marcus Liwicki, EISLab Sweden

TECHNICAL SKILLS

PROGRAMMING	C, C++, Python
TECHNOLOGIES	PyTorch, Tensorflow, Pyro, SciPy, NumPy, scikit-learn, FastText, NLTK, RASA, SpaCy, UNIX, Docker, Git, \LaTeX , Jupyter Notebook

ACHIEVEMENTS

- Kaggle Top 1% : Rank 5 in Plant Seedling Identification challenge.
- Medium Top Writer – Artificial Intelligence (Over 300K reads)
- Member of IBM Award Winner 2017 Team at BotSupply
- Reviewer : ICLR '20, '21, NeurIPS '20

PUBLICATION

UNDER REVIEW	Kumar Shridhar . End to End Binarized Neural Networks for Text Classification
ICLR '20 (WORKSHOP)	Pedro Alonso*, Kumar Shridhar* , Denis Kleyko*, Evgeny Osipov, Marcus Liwicki (2019). HyperEmbed: Trade-off Between Resources and Performance in NLP Tasks with Hyperdimensional Computing-based embedding of n-gram statistics
UNDER REVIEW	Kumar Shridhar , Joonho Lee, Hideaki Hayashi, Brian Kenji Iwana, Seokjun Kang, Seiichi Uchida (2019). ProbAct: A Probabilistic Activation Function for Deep Neural Networks
ARXIV	Kumar Shridhar , Felix Laumann, Marcus Liwicki (2019). Uncertainty Estimations by Softplus normalization in Bayesian Convolutional Neural Networks with Variational Inference
IJCNN '19 ORAL	Kumar Shridhar , Amit Sahu, Ayushman Dash, Pedro Alonso, Gustav Pihlgren, Vinay Pondeknath, Gyorgy Kovacs, Fotini Simistira, Marcus Liwicki (2018). Subword Semantic Hashing for Intent Classification on Small Datasets
CLEF '19	Gyorgy Kovacs, Vanda Balogh, Purvanshi Mehta, Kumar Shridhar , Pedro Alonso, Marcus Liwicki (2019). Author Profiling Using Semantic and Syntactic Features

LANGUAGES

ENGLISH:	Expert (TOEFL '16)
HINDI:	Native Language
GERMAN:	Intermediate (B1 '17)

VOLUNTEER EXPERIENCE

JAN '15 - JAN '16	Humanitarian Volunteer - <i>Ashaavan Educational and Welfare Society</i>
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