

# Kumar Shridhar

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## WORK EXPERIENCE

OCT '20 - PRESENT	Natural Language Processing Researcher at <b>ETH Zürich</b> Research on long text comprehension using Memory Networks and attention mechanism.
MAY '20 - SEP '20	ESoWC Summer of Weather Code at <b>European Centre for Medium-Range Weather Forecasts</b> Detecting Anomalies in Air Quality Station (DAAQS).
JAN '20 - MAY '20	Student Researcher at <b>Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI)</b> Research work on Probabilistic Activation Function for Deep Neural Networks. <a href="#">ArXiv</a>
OCT '18- DEC '19	Lead Researcher at <b>BotSupply, Denmark</b> Lead the NLP team that powers all the customers' chatbots at Bot-Supply.
JAN '18- SEP '18	Research Assistant at <b>Insiders Technologies GmbH, Germany</b> 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> <b>Specialization:</b> Machine Learning, <b>Minor:</b> Psychology <b>Masters Thesis:</b> Bayesian Convolutional Neural Network with Variational Inference. <a href="#">ArXiv</a>
APR '19 - JUNE '19	<i>Visiting Student, Kyushu University, Japan</i> <b>Supervisor:</b> Prof. Seiichi Uchida, Uchida Lab
JAN '19 - MAR '19	<i>Visiting Student, Luleå University, Sweden</i> <b>Supervisor:</b> 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, $\text{\LaTeX}$ , 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

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

## LANGUAGES

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

## VOLUNTEER EXPERIENCE

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