

Shubham Krishna

CONTACT INFORMATION	Fichtenweg 26 Tübingen 72076 Germany	✉ shubham.krishna@bethgelab.org 🌐 shub-kris.github.io 🌐 shub-kris 📺 shubham-krishna 📞 (+49)15162793372
EDUCATION	University of Tübingen , Tübingen, Germany <i>Masters of Science, Machine Learning</i> Selected Courses: Deep Learning for Computer Vision and NLP, Autonomous Driving, Data Mining, Probabilistic Machine Learning, Statistical Machine Learning, Convex Optimization Indian Institute of Technology , Dhanbad, India <i>Integrated Masters of Technology, Mathematics & Computing</i> GPA: 9.2/10.0 , First Class with Distinction Selected Courses: Data Structures & Algorithms, Object Oriented Programming, Databases, Probability, Inferential & Descriptive Statistics, Linear Algebra, Multivariate Calculus	Oct 2019 - Ongoing July 2013 - May 2018
WORK EXPERIENCE	Research Assistant, Robust & Efficient Deep Learning <i>Advisors: Steffen Schneider, Prof. Dr. Matthias Bethge, Bethge Lab, Tubingen, Germany</i> Working on Out of Distribution Generalisation (Recent Paper Accepted at NeurIPS Workshop) and Pruning in Deep Neural Networks. Technologies Used: PyTorch, PyTorch Lightning, Numpy, Pandas, Seaborn Senior Software Engineer, Information Retrieval & NLP <i>Samsung Research, Bangalore, India</i> Integrated Natty Date Parser (Java Library) to the query expansion algorithm to serve time domain based queries. Implemented the Gallery hierarchical search using taxonomical entities for improving recall of related search feature. Technologies Used: Tensorflow, NLTK, Gensim, Java, Android Studio Research Assistant, Unsupervised Machine Learning <i>Advisors: Prof. Dr. Romain Billot, Prof. Dr. Nicolas Jullien, IMT Atlantique, Brest, France</i> Performed a large scale study on the contributing pattern of Wikipedia's Online Contributors using different clustering algorithms and Principle Component Analysis. Technologies Used: R, ggplot2, dplyr Software Engineering Intern, Natural Language Processing <i>Samsung Research, Bangalore, India</i> Developed and commercialized a real-time LSTM based text classification model to handle expletive sentences for the Voice Assistant Bixby. Improved the accuracy by 5%. Technologies Used: Tensorflow, Gensim	April 2020 - present July 2018 - Sep. 2019 Jan. 2018 - Apr, 2018 May 2018 - July 2018
PUBLICATIONS	Steffen Schneider*, Shubham Krishna* , Luisa Eck, Mackenzie Mathis and Matthias Bethge. On the Relationship between Adaptive and Invariant Representation Learning. <i>Accepted at Pre-registration NeurIPS Workshop, 2020</i> Shubham Krishna* , Ahsaas Bajaj*, Hemant Tiwari and Vanraj Vala. Learning Mobile App Embeddings using Multi-task Neural Network. <i>International Conference on Applications of Natural Language to Information Systems, 2019</i> Shubham Krishna , Romain Billot and Nicolas Jullien. A Clustering approach to infer Wikipedia contributor's profile. <i>International Symposium on Open Collaboration, 2018</i>	
SELECTED PROJECTS	Self Driving Car using Behaviour Cloning Developed a smart driving agent that can clone an expert's driving behaviour. Uses CNN to predict the steering angle and acceleration from visual inputs. Technologies Used: PyTorch, OpenAI Gym Image Denoising Using Neural Network Used Convolutional Autoencoder for learning a robust latent representation in order to estimate the original image by suppressing noise from a noisy version of the image. Technologies Used: PyTorch	Oct. 2019 - Nov. 2019 May 2020 - May 2020
TECHNICAL SKILLS	Programming: Python, C, C++, R, Shellsript Software: PyTorch, SciPy/NumPy/Pandas, Git, Tensorflow, Keras	