

KRISHNAKANT SINGH

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EDUCATION	<p>Department of Computer Science, TU Darmstadt <i>Ph.D. in Computer Science</i> • Advisor: Prof. Stefan Roth • Research area: Compositional generative modelling</p> <p>Department of Computer Science, IIT Hyderabad <i>M.Tech in Computer Science</i> • GPA: 9.2/10.0, Rank: In Top-5/30</p> <p>Department of Computer Science, IIIT Sambalpur <i>B.Tech in Computer Science</i> • GPA: 9.3/10.0, Rank: 1/38</p>	<p>Darmstadt, Germany 2021-2026 (<i>expected</i>)</p> <p>Hyderabad, India 2015-2018</p> <p>Sambalpur, India 2011-2015</p>
EXPERIENCE	<p>Research Scientist Rakuten, Japan • Shipped complete the look recommendation for fashion items for Rakuten fashion. • The model uses a BERT-like model by treating fashion recommendation problems as masked text modeling.</p> <p>Research Engineer Rakuten, Japan • Shipped shoot-and-shop feature for real-world fashion images. • Modified Mask R-CNN models for working on real-world noisy fashion images.</p> <p>Summer Intern MLPack, Google Summer of Code • Developed and merged machine learning algorithms like Spike-Slab RBMs, RBMs, and GAN into MLPack library. • The developed models beat efficiency benchmarks compared to the scikit-learn library.</p>	<p>Nov, 2019-Feb, 2021</p> <p>Sep, 2018-Nov, 2019</p> <p>Jun, 2017-Sep, 2017</p>
PUBLICATIONS	<ol style="list-style-type: none">Krishnakant Singh, Simone Schaub-Meyer, Stefan Roth. Guided Latent Slot Diffusion for Object-Centric Learning. <i>Under Review</i>.Krishnakant Singh, Simone Schaub-Meyer, Stefan Roth. Is Synthetic Data All We Need? Benchmarking the Robustness of Models Trained with Synthetic Images. <i>CVPR SyntaGen Workshop, 2024</i>. Best Paper AwardKrishnakant Singh, Simone Schaub-Meyer, Stefan Roth. S^2-Flow Join semantic and style editing of facial images. <i>BMVC, 2022</i>.K.J. Joseph, Vamshi Teja R., Krishnakant Singh, Vineeth N. Balasubramanian, Sub-modular Batch Selection for Training Deep Neural Networks. <i>IJCAI, 2019</i> and <i>ICML-Workshop, 2019</i>.	
AWARDS AND HONORS	<ul style="list-style-type: none">• Best Paper Award, SyntaGen Workshop, CVPR 2024.• Academic Excellence Award, Spark Fellowship.• Academic Scholarship, IIT Hyderabad.	
SKILLS	<p>Languages: English, Hindi, German(Basic).</p> <p>Programming: Python, C++, MATLAB.</p>	

ACADEMIC
SERVICES

Reviewer for: ICCV 2023, ECCV 2024, NeurIPS 2024.

Talks: EuroPython 2020: [Link](#).