

JAISIDH SINGH

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Education

Eberhard Karls University of Tübingen Master of Science in Machine Learning	Oct 2024 - Present
Indian Institute of Technology Jodhpur Bachelor of Technology in AI and Data Science	Dec 2020 - May 2024

Technical Skills


Area of research: Deep learning, efficiency, multimodal reasoning
Languages: Python, L^AT_EX, JavaScript, Dart, Bash, C++
ML-DL frameworks: PyTorch, MLX, JAX/FLAX, NumPy
Other technologies: Selenium, ReactJS, NodeJS, ExpressJS, Flutter, Linux, Git, GraphQL

Selected Publications




Hyper-Align: Efficient Modality Alignment with Hypernetworks (ICLR WSL Workshop 2025) <i>Jaisidh Singh</i> , Diganta Misra, Boris Knyazev, Antonio Orvieto.	Link: 
Learning the Power of “No”: Foundation Models with Negations (WACV 2025) <i>Jaisidh Singh*</i> , Ishaan Shrivastava*, Mayank Vatsa, Richa Singh, Aparna Bharati	Paper: 
SynthProv: Interpretable Framework for Profiling Identity Leakage (WACV 2024) <i>Jaisidh Singh</i> , Harshil Bhatia, Aparna Bharati, Richa Singh, Mayank Vatsa	Paper: 

*: indicates equal contribution

Research Experience

ELLIS Institute, Tübingen <i>With Antonio Orvieto, Boris Knyazev (SAIT Montreal)</i> <ul style="list-style-type: none">Working on parameter-predictors for efficient multimodal alignment. Published at ICLR WSL Workshop 2025.	Jan 2025 to May 2025
Trusted AI Lab, IIT Jodhpur <i>With Mayank Vatsa, Richa Singh, Aparna Bharati</i> <ul style="list-style-type: none">Analysed StyleGAN2’s latent space to profile identity leakage. Published at AAAI Student Abstracts 2023 and WACV 2024.Developed CC-Neg, a multimodal dataset to benchmark & improve negation understanding in CLIP. Published at WACV 2025.	Aug 2022 - Jan 2023, Jul 2023 - May 2024
Bosch Research India, Bengaluru <i>With Amit Arvind Kale, Sonam Singh</i> <ul style="list-style-type: none">Developed modular plug-and-play image retrieval pipelines for internal experiments.Devised an automated interpretable framework for failure discovery for semantic segmentation (report ).	Summer 2022, May 2023 - Jan 2024

Projects

loracclip : A library to easily wrap LoRA layer insertion for CLIP.	GitHub: 
pytorch-mixtures : A minimalist library for popular MoEs & MoD in PyTorch.	GitHub: 
Physics-informed ML tutorial : An in-depth tutorial on forecasting continuous PDEs.	Link: 

Awards & Achievements

- Zuse School ELIZA fellowship for Masters students 2024.
- 6428 rank out of 1.5 million applicants in JEE Mains 2020, with rank 3214 in JEE Advanced 2020.
- Top ranks in several regional level Olympiads. Awarded with a laptop by the Science Olympiad Foundation.