




JAISIDH SINGH

✉ [E-mail](#)  [LinkedIn](#)  [Website](#)  [GitHub](#)

EDUCATION

University of Tübingen

MSc in Machine Learning (German grade: 1.6)

Tübingen, Germany
2024 - Present

Indian Institute of Technology, Jodhpur

B.Tech in AI and Data Science

Jodhpur, India
2020 - 2024

EXPERIENCE

Tübingen AI Center

With Peter Gehler

Working on creating LangGraph agentic systems of increasing complexity and delivering tutorials on LangGraph agents at research and industrial venues like GCPR & ARENA36.

Sept - Present

ELLIS Institute, Tübingen

With Antonio Orvieto

Worked on parameter-predictors for efficient multimodal alignment. Published at EMNLP 2025 after building on our ICLR WSL Workshop 2025 work.

Jan-May 2025

Trusted AI Lab, IIT Jodhpur

With Mayank Vatsa, Richa Singh

Analysed StyleGAN2's latent space to profile identity leakage, published at AAAI Student Abstracts 2023 and WACV 2024 — and, developed CC-Neg, a multimodal dataset to benchmark improve negation understanding in CLIP, published at WACV 2025.

Winter 2022, July 2023 - May 2024

Bosch Research, Bengaluru

With Amit Arvind Kale, Sonam Singh

Developed modular plug-and-play image retrieval pipelines for internal experiments — and, automated interpretable failure discovery in semantic segmentation models.

Summer 2022, May 2023 - Jan 2024

PUBLICATIONS

1. (Almost) Free Modality Stitching of Foundation Models 2025 Main

Jaisidh Singh, Diganta Misra, Boris Knyazev, Antonio Orvieto
Empirical Methods in Natural Language Processing (EMNLP) 2025, International Conference on Learning Representations (ICLR) WSL Workshop 2025

2. Learning the Power of “No”: Foundation Models with Negations Main

Jaisidh Singh*, Ishaan Shrivastava*, Richa Singh, Mayank Vatsa, Aparna Bharati
Winter Conference on Applications of Computer Vision (WACV) 2025

3. Automatic Discovery and Assessment of Interpretable Systematic Errors in Semantic Segmentation

Jaisidh Singh, Sonam Singh, Amit Arvind Kale, Harsh K Gandhi
arXiv preprint

4. SynthProv: Interpretable framework for profiling identity leakage

Jaisidh Singh, Harshil Bhatia, Mayank Vatsa, Richa Singh, Aparna Bharati
Winter Conference on Applications of Computer Vision (WACV) 2024, Association for Advancement in Artificial Intelligence (AAAI) Student Abstracts 2023

FELLOWSHIPS, AWARDS, & RECOGNITIONS

Konrad Zuse School (ELIZA) Fellowship for Master's students 2025-2026


Konrad Zuse School (ELIZA) Fellowship for Master's students 2024-2025

Rank 6428 in JEE Mains 2020, 3214 in JEE Advanced 2020.



SOF awarded laptop for top regional ranks in Olympiads (2011).

TALKS & PRESENTATIONS

Tutorial on AI Agents, LangGraph, & MCP

GCPR Day 1 —  Webpage

(Almost) Free Modality Stitching of Foundation Models

Cohere Labs —  YouTube video  Slides

Tutorial on Continuous PDE forecasting with INRs

Presentation for Physics-informed ML Seminar @ Uni-Tübingen  Webpage

Learning the Power of “No”: Foundation Models with Negations

WACV 2025 —  Video  Poster

SynthProv: Interpretable Framework for Profiling Identity Leakage

WACV 2024 —  Slides  Poster

SKILLS

Languages: English (Fluent + Professional), Hindi (Native), Punjabi (Native)

Research interests: Deep learning, efficiency, foundation models

Programming languages: Python, \LaTeX , JavaScript, Dart, Bash, C++

ML frameworks: PyTorch, JAX/FLAX, NumPy

SWE tools: Selenium, ReactJS, NodeJS, ExpressJS, Flutter, Git, GraphQL

PROJECTS

`lora-clip`

Python library that cleanly wraps LoRA-layer insertion into CLIP.

`pytorch-mixtures`

Minimalist and fast Python library for sparse (top-k and expert-choice) and soft mixture of experts in PyTorch.

`quick-match`

A fast and easy command-line tool for using SOTA face-matchers. Supports ArcFace, SphereFace, ElasticArcFace, and FaceNet.

EXTRA-CURRICULAR

Student Guide

Student Well-being Committee, IIT Jodhpur

Mentored 10 students personally and professionally, and worked with a team of 45 to handle 500 students.

Core member

Music ociety, Quiz Society, Literature Society, DevUp Labs IIT Jodhpur

Seasoned guitarist, bassist, vocalist, and avid reader. Performed at cultural events like Inter-IIT Cultural Meet 2023 & 2024, Ignus 2023, etc. Assumed collaborative and leadership roles in coordinating activities with juniors.