

VEERARAJU ELLURU

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Education

Indian Institute of Technology Jodhpur

May 2026

Bachelor of Technology in Computer Science and Engineering

CGPA: 9.27/10 (Rank: 8/550)

Relevant Coursework: Linear Algebra, Probability, Statistics, and Stochastic Processes, Design & Analysis of Algorithms, Pattern Recognition & Machine Learning, Computer Vision, Foundation Models in Generative AI, Deep Learning, Natural Language Understanding

Skills

Languages: Python, C, C++ | SQL | HTML, CSS, JavaScript

Frameworks and Tools: PyTorch | HuggingFace, wandb, multi-gpu training | Django | AWS

Experience

Research Intern, TAILS, Thoughtworks, Chicago, IL (Remote)

May 2025 - Aug 2025

- **First** intern cohort for Thoughtworks AI Labs (TAILS). Research on the **Fine-grained Incompleteness Evaluation** of Textual **Summarization** tasks across Small and Large Language Models.
- Co-development and evaluation of **Self-Attention via Lie-Algebraic Flows** for textual summarization.
- Representative works accepted at **PRICAI** and submitted to **Nature Scientific Data**.

Research Assistant, University of California Riverside

May 2025 - Aug 2025

- Research on mechanistic interpretability for studying compression and pruning in multi-modal models (VLMs, MLLMs) such as LLaVA and BLIP for Visual QA (VQA) tasks.

Research Assistant, [Image Analytics and Biometrics Lab](#), CSE Dept, IITJ

Dec. 2024 - Present

- Research on privacy-respecting AI systems, fundamentally based on Machine Unlearning
- One representative work accepted to **ICCV**, 2025.

Research Intern (REU), [CDA](#), University of Illinois Urbana-Champaign, Champaign, IL

Summer 2024

- **Developed Foundation Models** for Livestock Image Segmentation pipelines leveraging self-supervised, non-contrastive learning algorithms like Bootstrap Your Own Latent. Generated robust and precise cattle masks for large-scale **out-of-distribution** datasets via Supervised Fine-Tuning.
- Achieved **6%** improvement in mean Jaccard scores on large-scale cross-species datasets, at **only 2-5% labeled data** during SFT, hence debunking Supervised Learning-based segmentation algorithms.

Projects

Project: Multi-view 3D scene reconstruction, Course: Computer Vision | [GitHub](#), [HF](#)

Apr. 2025

- **Evaluated** various scene-reconstruction methods such as NeRFs, GANs, Gaussian Splatting, and classical Structure-from-Motion (SfM) and Multi-view Stereo (MVS) techniques.
- **Benchmarked** above models across a plethora of 2D-3D datasets to illustrate the best performance.
- Deployed a **front-end** application using Streamlit to support easy tinkering.

Project: Multi-label classification on the LFW dataset, Course: PRML | [GitHub](#)

Mar. 2024

- **Evaluated** feature extraction methods - HOG, LBP, CNNs, and their combinations for improving face recognition accuracy.
- **Benchmarked** classifiers - KNN, MLPs, Naïve Bayes, SVM, XGBoost, on the **LFW dataset**.
- **Developed** a face recognition pipeline using PyTorch and Streamlit for easier usability and deployment.

Leadership Activities

Introduction to Machine Learning Teaching Assistant, IITJ CSE Dept

Fall 2025

Introduction to Computer Science Teaching Assistant, IITJ CSE Dept

Spring 2025