

# Daksh Mor

Adm. No. 23JE0286

+91-9350114220

✉ [daksh3982@gmail.com](mailto:daksh3982@gmail.com)

🌐 [linkedin.com/in/daksh-mor](https://www.linkedin.com/in/daksh-mor)

🐙 [github.com/daksh-mor](https://github.com/daksh-mor)

📄 [kaggle.com/dakshmor](https://kaggle.com/dakshmor)



## Education

**Indian Institute of Technology (Indian School of Mines), Dhanbad**

Expected May 2027

Bachelor of Technology in Computer Science and Engineering (CGPA: 9.11/10.00)

Dhanbad, India

- **Relevant Coursework:** Data Structures, Algorithm Design & Analysis, Operating Systems, Object-Oriented Programming

## Experience

**Google Summer of Code (GSoC)**

May 2025 – July 2025

Open Source Contributor

Remote

- Designed a continual learning framework for CERN CMS HCAL anomaly detection using frozen ViT with trainable convolutional adapters, cutting trainable parameters by **60%** with no accuracy loss.
- Authored a paper accepted at **NeurIPS 2025 ML4PS Workshop**; extending into a full manuscript.

**National University of Singapore (NUS)**

May 2025 – July 2025

Research Internship

Hybrid

- Proposed and investigated a novel approach for **mechanistic interpretability** in LLMs by reverse engineering internal representations and leveraging gradient ascent in sparse autoencoders to extract monosemantic features.

## Projects

**Skin Cancer Detection System** | 🌐

Kaggle ISIC 2024 Challenge

PyTorch, LightGBM, Scikit-learn, Optuna

- Built a **multimodal ensemble pipeline** for binary classification of skin lesions using the SLICE-3D dataset, comprising over 400,000 lesion crops extracted from 3D total body photographs.
- Stacked CNN outputs (**EfficientNet, ResNet, DenseNet**) with LightGBM, employing a **triple stratified group K-fold** strategy to address severe class imbalance and prevent patient-level data leakage.
- Secured **top 9%** ranking with a pAUC (80% specificity) score of **0.18512** on the public leaderboard and **0.16904** on the private leaderboard, after **75+** submissions optimizing hyperparameters and ensemble strategies.

**WhiteBox: Ai junior analyst for equity market** | 🌐

Inter IIT Tech meet 14.0 problem statement by pathway

Pathway, kafka, docker, LangGraph

- Built a streaming native AI market intelligence platform ingesting real-time financial data using Kafka & Pathway.
- Designed dual-layer memory with centroid-based working memory for live topic clustering and a DocumentStore for semantic RAG retrieval over SEC filings and news.
- Optimized RAG pipeline with reranking & contextual enrichment achieving **88.3%** tool selection accuracy and **21%** higher precision over naive baseline.

## Technical Skills

**Languages & Tools:** Python, C/C++, Docker, Kafka, GitHub, VS Code, Kaggle

**Frameworks & Libraries:** PyTorch, Transformers, Scikit-learn, Optuna, NumPy, Pandas, LangGraph

## Achievements

- Secured **5th** position in the Pathway problem statement at **Inter IIT Tech Meet 14.0**
- **Winner (x4)** – Obscurathon (Relay Hackathon), Hackfest (2025, National Level), Masterstack, Cosmolligence.
- **Bronze Medal (Top 9%)** – ISIC 2024 Challenge on Kaggle among 2700+ global teams.
- **AIR 362** – GATE 2026 (Data Science & Artificial Intelligence)
- **Codeforces Specialist** (Max Rating: 1419); solved **500+** problems across platforms.

## Social Engagements

**Club Member:** Machine Learning Division, CyberLabs – Organized workshops engaging **500+** students.

**Lead Organizer:** Srijan Cultural Fest – Managed event logistics for **1,000+** participants.