



Aashcharya Gorakh

Roll No.:B23ES1001

B.Tech

Majors in Computer Science

Indian Institute Of Technology, Jodhpur

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Portfolio

Github | LinkedIn

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute Of Technology, Jodhpur	7.67	2023 - 2027
Higher Secondary	School of Scholars, Nagpur (CBSE)	88.4%	2023
Secondary	Bhavan's B.P. Vidya Mandir, Ashti (CBSE)	94.2%	2021

EXPERIENCE

• CyberUltron Pvt. Ltd.

Software Development Intern / Remote

Oct 2025 - Present

- Engineered an event-driven microservices architecture (FastAPI, Celery), integrating Redis message queues to reduce security scan dispatch latency by 40% under production loads.
- Built a threat analysis engine leveraging Polyglot Persistence (PostgreSQL, MongoDB) and Elasticsearch, improving data retrieval performance by 50% at scale through advanced indexing and LLM-based query parsing.

PROJECTS

• CHEST X-RAY PATHOLOGY LOCALIZATION | [GITHUB](#) [↗](#)

Prof. Pratik Mazumdar / Research Project

Aug 2025 - Nov 2025

- Architected a Multimodal U-Net fusing ResNet34 and 512-dimensional CLIP embeddings, achieving 89% Dice Score by utilizing semantic feature concatenation to automate pathology segmentation from unstructured text.
- Optimized a Self-Supervised Autoencoder pipeline on 7,400+ unlabeled X-rays, reducing required labeled data by 96% (utilizing only 240 samples) while accelerating model convergence by 40% via Transfer Learning.

• SKELETON-AWARE DEEP MOTION RETARGETING | [GITHUB](#) [↗](#)

Prof. Avinash Sharma / Design Credit Project

Jun 2025 - Jul 2025

- Developed a Graph Neural Network (GNN) based retargeting system, enforcing end-effector kinematic consistency to preserve 95% motion fidelity across 29 heterogeneous rig topologies.
- Streamlined the latent space representation processing 2,400 Mixamo clips, slashing normalized error by 2.3×10^3 and enabling real-time inference capabilities through rigorous hyperparameter tuning.

• DYNAMIC LOAN GRAPH | [GITHUB](#) [↗](#) | [VISUALIZER](#) [↗](#)

Prof. Suchetana Chakraborty / DSA Project

Mar 2025 - Apr 2025

- Formulated a high-frequency debt simplification engine by benchmarking Dijkstra and Bellman-Ford heuristics, cutting graph complexity by 60% and attaining 0.1ms execution latency on 1,000+ node networks.
- Devised an interactive financial topology visualizer utilizing greedy optimization strategies and Graphviz, successfully identifying critical settlement nodes with 95% accuracy.

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, Javascript, SQL, HTML, CSS.
- **Machine Learning Tools:** NumPy, Pandas, Matplotlib, Seaborn, Scikit Learn, Pytorch, Mediapipe, Langchain.
- **Development Tools & Others:** Git/Github, System Design, OOPs, Docker, CI/CD pipelines, Bash, Jupyter Notebooks, Google Colab, VS Code, Linux, Firebase, MATLAB, Blender.
- **Coursework:** Data Structures and Algorithms(A Grade), Machine Learning(A Grade), Probability and Statistics(A- Grade), Linear Algebra(A- Grade), Database Systems, Operating Systems, Computer Architecture.

LINKS

Leetcode: [aashcharya](#) [↗](#) Codeforces: [aashcharyagorakh](#) [↗](#) GFG: [aashcharya10](#) [↗](#)

ACHIEVEMENTS

- Solved 1000+ Data Structures & Algorithms problems across leading platforms (LeetCode, Codeforces, etc.).
- National Semi-Finalist in Flipkart GRID 7.0.
- Ranked 808th Globally in Round 1 and 1572nd Globally in Round 2 of Meta Hackercup 2025 .
- Expert on Codeforces with Maximum rating 1634.
- Achieved a Global rank of 469 among 41k+ participants in Codeforces Round 1042.
- Global Top 2% rated Knight on LeetCode (Maximum Rating: 2011).
- Acquired 49 global rank out of 35K+ participants in LeetCode Weekly Coding Contest 466.
- Branch Changed at the end of first year in college.
- Secured 15K rank in JEE Advanced among 1.2M+ participants (Top 1.25%) and 97.25%ile (31k rank) in JEE Mains.

EXTRACURRICULAR

Programming Society | Core Member

Prometeo'25 | Marketing Assistant Head