

CHINMAY RAJPUROHIT



ACADEMIC DETAILS					
Year	Degree / Board	Institute	GPA / Marks(%)		
	M.Tech in Computer Technology	Indian Institute of Technology Delhi	7.59		
2022	BTU	Govt Engineering College, Ajmer	7.82		
2018	CBSE	RSM International School, Jodhpur	82.4%		
2016	RBSE	VSM Senior Secondary School,	89.33%		
		Rajasthan			

SCHOLASTIC ACHIEVEMENTS

- GATE 2024 (Computer Science & Engineering): Secured All India Rank (AIR) 593 with a 99.52 percentile among 1.2+ lakh candidates.
- Top performer in 6-week Internshala Trainings on Programming in Python with AI (May–June 2020), scoring 90% in the final assessment.

INTERNSHIPS

- Ditansource, Remote(US Based) (June, 2021 August, 2021): Frontend Developer Intern
 - Designed and developed **homepage**, **product listings**, and **user dashboards** with focus on **responsive design** and **usability**.
 - Enhanced user experience by improving navigation, fixing layout issues, and adding useful features.

IIT DELHI THESIS

Title: Robustness and Fairness in Graph Neural Networks without Labels: A **Self-Supervised** Perspective. (July 2024 - Present)

Supervisor: Dr Sandeep Kumar, Associate Professor, IIT Delhi

Description:

- Developed an optimization formulation for robust and fair graph neural networks (GNNs) using self-supervised learning, aligning node embeddings with denoised graph structures.
- Implemented the framework with PyTorch Geometric and Python, evaluating resilience against adversarial attacks and reduction of bias in graph representations.

PROJECTS

- Linux Kernel Development (v6.1.6), Operating Systems: (Guide: Dr. Smruti R Sarangi, Professor, IIT Delhi):
 - System Call Monitoring Module: Implemented custom system calls (sys-register, sys-fetch, sys-deregister) totrack heap memory usage and open file descriptors of user-space processes.
 - Designed a **kernel module** using kernel level **doubly linked lists** for efficient process monitoring and interaction.
- Matrix Inversion In RISC-V Assembly: (Guide: Prof. Kaushik Saha, Professor, IIT, Delhi)
 - Implemented the **Gaussian Elimination Algorithm** to compute the inverse of n x n matrix using **Risc V** Assembly Language.
- Handled floating-point operations, memory access, and row operations like swapping, normalization, and elimination.
- Cloud-Based Encrypted Password Manager: (Guide: Prof. Sougata Mukherjea, Professor of Practice, IIT Delhi)
 - -Created a cloud-based password manager on **Microsoft Azure** with **user authentication**, **encrypted vault storage**, and an **Azure SQL** database backend.
 - -Built in AES-256 encryption and CI/CD pipelines (GitHub Actions) for stronger data protection, improved scalability, and consistent deployment.
- Social Media Analysis for Disaster Management Using Graph Neural Networks: (Guide: Prof. Sougata Mukherjea, Professor of Practice, IIT Delhi)
 - Examined the role of social media in disaster response by analyzing real-time data using **Graph Neural Networks** (GNNs).
 - GCN, and GAT for **classification**, along with sentiment analysis and **topic modeling** to extract critical insights.

TECHNICAL SKILLS

- Languages: C/C++ RISC-V Assembly, HTML, CSS, Python.
- Tools & Platforms: Git/GitHub, VS code, Docker, Linux, Azure, Jupyter Notebook
- Systems and Databases: Linux Kernel, x86 64, AzureSQL, MySQL



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IIT COURSE				
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COURSES DONE

Mathematical Foundations Of Co, Software Fundamentals For Comp, Computer Architecture, Special Topics In Computers 1, Mobile Computing