# ANKUSH RAWAT

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## Education

**Graphic Era Hill University, Dehradun**                                                  **2023 – 2027**
*B.Tech in Computer Science & Engineering*                                              *9.35 / 10 CGPA*

## Experience

**SWAYAM NPTEL Certification (IITs: Kanpur, Kharagpur, Madras)**        **Dec 2023 – Apr 2025**
*Discipline Star Awardee — 50+ Certified Learning Hours*                                *Online*

- Acquired **50+ certified learning hours** through multiple **IIT-led courses** (4, 8, and 12 weeks) in **Google Cloud**, **C/C++/Java programming**, and **Data Science**, demonstrating both technical breadth and academic rigor.
- Ranked in the **Top 5% out of 2500+ students** in "Introduction to Programming in C" by IIT Kanpur; earned **Elite + Silver Medal** Certification.
- Awarded the **NPTEL Discipline Star** (Apr 2025) for sustained academic performance across 5+ IIT-led courses, strengthening expertise in cloud systems, algorithms, and algorithmic challenges.

**CN - Dominator Challenge**                                                                **Dec 2023**
*30-Day Competitive Coding Series*                                                          *Online*

- Solved **30 algorithmic challenges** over 30 days, sharpening algorithmic thinking speed, logic design, and data structure fluency.
- Achieved a **Top 3% Rank (27/1000+)** by consistently delivering optimized, accurate solutions under time constraints.
- Maintained a **90% task completion rate** under timed pressure, validating performance reliability in high-stakes coding environments.

## Projects

**GitConnectX – GitHub Social Network Analyzer (React, GitHub API, D3.js)**          Source Code

- Deployed a full-stack platform to analyze and visualize GitHub social graphs; processed **500+ user nodes** using REST APIs.
- Implemented **Dijkstra's, BFS, Louvain, Girvan–Newman** algorithms for centrality ranking and community detection.

**Forest Fire Detection System (TensorFlow, Pillow, CNNs)**                          Source Code

- Attained **94% accuracy** in classifying fire/non-fire frames using CNN trained on **1,000+ labeled images**.
- Integrated real-time detection from webcam/video with optimized inference latency under **300ms**.

**MetaShield – Metadata Stripping Tool (React, PIL)**                                Source Code

- Built a file sanitization tool removing metadata from **5+ formats** (JPG, MP4, PDF, DOCX, etc.).
- Processed and sanitized **100+ media files** using PIL, `piexif`, and `mutagen` with React UI.

**Image Steganography – Secure Cryptography App (Tkinter, PIL)**                    Source Code

- Designed password-protected GUI to hide encrypted text using **MSB-based bit embedding** in JPEG/PNG images.
- Ensured **zero visual distortion** and safe message recovery from **100+ stego images**.

## Technical Skills

**Languages & Scripting**: Python, C++, C, SQL, Bash, Shell, PowerShell
**Web & App Development**: Django, Flask, Node.js, HTML, CSS, TailwindCSS, JavaScript, PyTkinter, PyQT
**Cloud & Platforms**: AWS, GCP, Google Cloud CLI, Google Colab, Jupyter
**Databases**: MySQL, MongoDB, SQLite, Oracle
**Tools & DevOps**: Git, GitHub, GitLab, VS Code, Figma, LaTeX

## Achievements

- Solved **750+ DSA problems** across LeetCode, Codeforces and CodeChef.
- Rated **2000+ on LeetCode**, **4 Star (1800+)** on CodeChef, **Expert** on Codeforces.
- Global Ranks: **5713 (Top 7%)** on LeetCode, **4555** on CodeChef.
- **NPTEL Achievements:** 4× Silver Medalist, 1× Gold Medalist, Discipline Star, Certificate of Appreciation.
- **Intro to C (IIT Kanpur):** Top 5%, Elite + Silver Medal, **Google Cloud (IIT Kharagpur):** Elite + Silver Medal.
- **AWS Certified Cloud Practitioner:** Completed 12 labs, credentialed.
- **Olympiads:** 3× Silver Medalist (NSO, ISKO, IMA), **IMA Gold Medalist**, Top-10 Zonal Rank Holder.
- Received **Letter of Appreciation from PMO & PM** under PMSS Scholarship scheme.