THANNEL CHITHAN

Roll No.:CS22B005
Computer Science and Engineering
National Institute Of Technology Arunachal Pradesh

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Portfolio
GitHub | LinkedIn

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	National Institute of Technology Arunachal Pradesh	8.32 (Current)	2022-26
Senior Secondary	Jawahar Navodaya Vidhyala, Changlang	84.5%	2022
Secondary	Jawahar Navodaya Vidhyala, Changlang	87.6%	2020

EXPERIENCE

- **IOCL** — *June 2025 - July 2025*
  summer Intern — Guwahati Refinery
  - Developed a real-time fire detection and alarm system using Python and Django, tailored for industrial environments.
  - Integrated a backend dashboard to track and manage alerts from image-based fire detection models.
  - Coordinated with refinery safety teams to understand real-world deployment challenges and model optimization needs.

PROJECTS

- **Solar Power Plant Defect Detection** — *June 2024 - Jul 2024*
  Tech Stack: Python, Deep Learning, CNN, OpenCV
  - Built a deep learning-based system to detect faults in solar panels using Convolutional Neural Networks (CNN).
  - Processed infrared thermal images and developed an anomaly detection pipeline.
  - Improved fault localization accuracy and generated visual heatmaps.

- **Portfolio Website** — *Feb 2023 - Mar 2024*
  Tech Stack: HTML, CSS, JavaScript, React
  - Developed a personal portfolio website to showcase projects, skills, and achievements.
  - Designed a responsive and accessible user interface with a clean layout.
  - Integrated links to GitHub, LinkedIn, resume, and other platforms to enhance professional presence.

TECHNICAL SKILLS

- **Programming**: Python, C/C++, JavaScript
- **Frameworks/Tools**: React, Django, TensorFlow, OpenCV, PyTorch (basic), HuggingFace Transformers (exploring)
- **Development Tools**: Git, Jupyter Notebooks, Google Colab, VS Code, Weights & Biases (basic)
- **Core Areas**: Data Structures & Algorithms, CNN, RNN, Transfer Learning, Object Oriented Programming, Web Development, Model Evaluation, Data Processing

SOFT SKILLS

- **Communication**
- **Analytical**
- **Collaborator**
- **Adaptable**

CERTIFICATION COURSES

- **Data Analytics Job Simulation** — *June 2025*
  Delloite

- **Ethical Hacking and Penetration Testing** — *May 2024 - June 2024*
  CDAC Noida (Under Ministry of Electronics & IT, Govt. of India)

POSITIONS OF RESPONSIBILITY

- **Event Coordinator**, Addovedi Tech Fest, NIT Arunachal Pradesh (2024) — *Oct. 2024*

ACHIEVEMENTS

- **Gate Exam**, Cleared GATE 2025 in first attempt — *2025*
- **Bronze Medal**, Tech Coding Challenge, NITAP — *2023*