

ADITYA RAJEEV PATIL

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LinkedIn GitHub

EDUCATION

Vellore Institute of Technology

B.Tech in Computer Science and Engineering, Specialization in Cyber Security and Digital Forensics

2022 - 2026

CGPA: 8.47/10

TECHNICAL SKILLS

- **Programming & Technologies:** Python, Java, JavaScript, SQL, HTML, CSS, MySQL, Git
- **Tools & Frameworks:** Anchor, Next.js, AWS ,Docker, Linux, NetCDF4, Geopandas, Rasterio, Panoply, Scapy

WORK EXPERIENCE

Intern

Nov 2024 - Jan 2025

National Remote Sensing Centre (NRSC), ISRO, Hyderabad, India

- Worked under the supervision of senior NRSC-ISRO scientists on an AI-driven climate analysis
- Developed and maintained a Python data pipeline (NumPy, Pandas, Matplotlib) for processing and visualizing large geospatial datasets
- Authored a technical report on AI-driven climate analysis, archived in the NRSC-ISRO library

PROJECTS

AI-Driven Satellite Climate Analysis Project — NRSC, ISRO ↗

Nov 2024 – Jan 2025

Tech Stack: Python, NumPy, Pandas, Matplotlib, Seaborn, NetCDF4, Rasterio, Geopandas, Scikit-learn, Panoply

- Executed end-to-end remote sensing analysis to map monthly, seasonal, and annual Blue-Sky Albedo trends from MODIS and Aerosol Optical Depth datasets
- Engineered custom preprocessing scripts for satellite data and produced composite images for Indian climate seasons ,handling 20+ years of data
- Applied regression analysis and visualized spatial trends to reveal key climate insights, supporting policy and research
- Ensured all project documentation met rigorous scientific and archival standards required by ISRO

SoilSense - AI Crop Recommendation System ↗

Jan 2025 – Apr 2025

Tech Stack: Python, Pandas, scikit-learn, XGBoost, SVM, KNN, Random Forest, IoT Sensors

- Built and tested several machine learning models (Random Forest, XGBoost, SVM, KNN) to predict the best crop based on soil sensor data (NPK, pH, moisture, temperature)
- Processed real sensor data for training; improved crop selection accuracy to 94%
- Automated data cleaning, model training, and result reporting for the project dashboard
- Compared model performance and chose XGBoost for best results in real-world tests

VoteChain — Blockchain Voting DApp ↗

Jan 2025 – May 2025

Tech Stack: Solana, Phantom Wallet, Rust (basic), Anchor Framework, Next.js, Web3.js, Cryptography, GDPR

- Led blockchain integration and access control; architected secure Phantom wallet authentication and cryptographic ballot submission, strengthening identity verification and voter privacy for 100+ simulated users
- Role-based authorization, and compliance alignment with ISO 27001 security standards to ensure tamper-proof, immutable voting records
- Delivered secure-by-design documentation, security onboarding, and deployment guidance, enabling team collaboration and stakeholder confidence in the platform's integrity

CERTIFICATIONS

- IBM DevOps and Software Engineering Fundamentals, IBM ↗
- Certified Ethical Hacker (CEH), EC-Council ↗
- Geo-Data Sharing and Cyber Security, ISRO ↗

Mar 2025

Dec 2024

Feb 2024

ACHIEVEMENTS & ACTIVITIES

- Top 3% Global Ranking on TryHackMe ↗
- Canara Bank SuRaksha Cyber Hackathon 2025
Finished in the Top 105 (top 2.6%) out of 4000+ teams nationwide.
- CTF 2024 — IIIT Kottayam ↗
Achieved All-India Rank 51 in a national Capture The Flag competition.

2025

2024

LEADERSHIP AND CAMPUS ENGAGEMENT

President, Cyber Warrior Club, Vellore Institute of Technology

2024 - 2025

- Increased club membership by 30% by organizing tech talks and 3 Capture The Flag (CTF) challenges
- Secured 3 industry professionals to lead hands-on cybersecurity workshops for 80+ students
- Planned and executed a CTF event with 80 participants, improving campus-wide security awareness

Event Management Lead, Marathi Club, Vellore Institute of Technology

2024 - 2025

- Managed logistics and operations for the annual Ganpati Festival, serving an attendance of 1000+ students
- Coordinated a 2-day cultural event, managing a team of 15 volunteers and all scheduling
- Acquired sponsorships to increase the annual event budget by 15%