

# PRERNA PRACHI

AI/ML Student — Research Intern @ DRDO  
LinkedIn — GitHub — LeetCode

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## SUMMARY

Pre-Final year Computer Engineering student (CGPA 8.68) with research internship experience at DRDO, building scalable machine learning pipelines and research-grade algorithms. Proficient in Java, Python, and C++, with strong expertise in Data Structures, full-stack development, and deploying AI models to production. Seeking to build impact-driven intelligent systems.

## EDUCATION

- Vellore Institute of Technology** India  
B.Tech - Computer Engineering (AI & ML) Sep 2023 - Sep 2027  
CGPA: 8.68  
Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, OOPs, Machine Learning, Cloud Computing
- St. Karen's High School** India  
Senior Secondary - Science with Mathematics Jul 2019 - Sep 2021
- Simultala Awasiya Vidyalaya** India  
Matriculation Jan 2018 - Apr 2019

## SKILLS

- Languages:** C++, Java, Python, JavaScript, SQL
- Core Engineering:** DSA, OOPS, DBMS, REST APIs, Git/GitHub
- AI/ML:** TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, CNNs, Generative AI
- Web & Cloud:** HTML, CSS, React.js, AWS (EC2, S3), Linux

## EXPERIENCE

- Research & Development Intern - DRDO** Hyderabad  
AI/ML Research Intern May 2025 - Jul 2025
  - Developed a next-generation object identification system by integrating orbital mechanics with machine learning models (XGBoost, Regression).
  - Built scalable Python pipelines to process Space-Track API data for trajectory prediction.
  - Delivered a collision risk assessment subsystem for Space Situational Awareness (SSA) operations.
- AICTE - Microsoft AI National Skilling** Remote  
AI/ML Intern Apr 2025 - May 2025
  - Completed national-level AI skilling internship among 5,000+ participants with industry-recognized certification.
  - Built and deployed ML models using Azure Cloud tools, achieving 96% accuracy.

## PROJECTS

- Student Wellness Analyzer:** Developed a responsive frontend web application to support student mental wellness with mood tracking features.  
Tech: HTML, CSS, JavaScript (Jun 2025 - Jul 2025)
- Detection of AI-Generated Images:** Built a CNN-based model to detect AI-generated images with 94% accuracy.  
Tech: Python, CNNs (Jan 2025 - Apr 2025)

## ACHIEVEMENTS & CERTIFICATIONS

- Solved 200+ problems on LeetCode
- Hackathon Participant - StartWell Hackathon (Built *NatureMind*)
- NPTEL Certification - Cloud Computing
- Shell n' Zen - OWASP® Club VIT Bhopal

## LEADERSHIP & VOLUNTEERING

- Help Desk Team Lead - Garba Night 2025
- Event Disciplinary - Winter Fest 2024 & Garba Night 2024