

BURLA ROHITH

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Professional Summary

AI/ML developer with hands-on experience building machine learning models, NLP systems, and computer vision applications. Comfortable taking projects end-to-end — from model design and training to deployment. Strong problem-solver with a collaborative mindset and a focus on practical, real-world solutions.

Education

CMR College of Engineering and Technology <i>B.Tech in Computer Science & Engineering</i>	2023 – 2027 <i>CGPA: 8.06/10</i>
Sri Chaitanya Junior College <i>Intermediate (MPC)</i>	2021 – 2023 <i>97.2%</i>
Sri Chaitanya Techno School <i>Secondary School Certificate (SSC)</i>	2020 – 2021 <i>GPA: 10.0/10</i>

Projects

- Divya Drishti** | *SegFormer-B2, PyTorch, Deep Learning, GeoTIFF* [GitHub](#) | [Live Demo](#)
- Developed an end-to-end deep learning pipeline using **SegFormer-B2** to extract buildings, roads, water bodies, and bridges from high-resolution drone orthophotos.
 - Achieved **95.66% mIoU** on the validation set, significantly exceeding the typical competition benchmark of 75–85%.
 - Processed **10 production villages** with **198K+ image patches** with zero failures; outputs delivered in GeoTIFF and GeoPackage formats.
- Gamical Therapy** | *Python, MediaPipe, Computer Vision, ML* [GitHub](#)
- Built a gamified therapy system using **Python** and **MediaPipe** for real-time body and gesture tracking.
 - Designed interactive therapeutic exercises that use computer vision to monitor and guide user movements.
 - Integrated gamification mechanics — scoring, levels, and rewards — to improve patient engagement and adherence to therapy programs.
- End-to-End Movie Recommendation System** | *Python, Machine Learning, ML Algorithms* [GitHub](#)
- Built a robust movie recommendation system that analyzes **user preferences and viewing history** to generate accurate personalized movie suggestions.
 - Utilized popular **machine learning algorithms** to classify movies and generate recommendations tailored to individual users.
- SurakshaNet AI** | *FastAPI, Python, OpenCV, Neo4j, LLM* [GitHub](#) | [Live Demo](#)
- Architected a cloud-deployed **multi-agent fraud intelligence platform** using **FastAPI**, **Pydantic**, and **Python** to automate scam detection, counterfeit currency validation, and fraud network analysis.
 - Engineered asynchronous endpoints optimized for **Uvicorn** servers, integrating **Groq LLM** and **OpenCV** for real-time threat detection while minimizing latency on deep validation routines.

Technical Skills

Languages: Python, Java, C
AI / ML: Machine Learning, Deep Learning, NLP, Computer Vision, PyTorch
CS Fundamentals: Data Structures & Algorithms (DSA)
Databases: SQL, MongoDB, Firebase
Tools: Git, GitHub, VS Code

Achievements

- Winner – MRCE Hack-o-Heist Hackathon 2025**
Built **Gamical Therapy**, a cartoon-themed physiotherapy gaming platform for children using **Python**, **MediaPipe**, and **Machine Learning**. Enabled real-time body tracking and gamified therapeutic exercises through interactive character-based gameplay.
- Finalist – AI/ML Hackathon, Ministry of Panchayati Raj (2025)**
Organized by **IIT Tirupati** as part of Team AI Avengers. Developed the **Divya Drishti** solution using **SegFormer-B2** for automated extraction of buildings, roads, water bodies, and bridges from drone orthophotos.

Certifications

- [AI Agent Fundamentals](#) — Anthropic Academy
- [Building with the Claude API](#) — Anthropic Academy
- [Prompt Engineering with Claude](#) — Anthropic Academy
- [Introduction to Data Science](#) — Cisco Networking Academy
- [Python Essentials 1](#) — Cisco Networking Academy
- [Introduction to Modern AI](#) — Cisco Networking Academy