

Ranga Bharath kumar

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SUMMARY

Cybersecurity student passionate about machine learning, with hands-on experience developing ML solutions like Health Oracle (healthcare predictions) and blockchain-based secure systems. Strong team player who successfully managed two college projects with 5-8 member teams. Skilled in Python and Java, currently exploring cybersecurity applications for ML to build more robust and secure AI systems.

TECHNICAL SKILLS

Programming Languages: Java, Python

Frameworks: TensorFlow, PyTorch

Libraries & Tools: NumPy, Pandas, Scikit-learn, OpenCV, Git, FastAPI

Platforms: AWS (Basic), Render

PROJECTS

Blockchain based secure data sharing platform

Jan 2024 – May 2024

Data Sharing Platform

React.js, Solidity, MetaMask

- Built a decentralized system enabling tamper-proof data sharing using blockchain technology.
- Led frontend development (React) and smart contract integration (Solidity).
- Managed 5-member team to deliver a functional prototype with immutable transaction auditing.
- GitHub: https://github.com/rangabharathkumar/PriveX_3.0-A-Blockchain-based-secure-data-sharing-platform

Health oracle

July 2024 – Mar 2025

Disease Prediction System

React Native, Machine Learning, FastAPI

- Developed an AI-powered mobile app analyzing wearable data to predict diseases with personalized health insights.
- Led ML model development and integration for real-time health risk assessment.
- Managed an 8-member team in full project lifecycle from concept to implementation.
- GitHub: https://github.com/rangabharathkumar/health_oracle_2

Autonomous Disaster Response UAV

July 2024 – Mar 2025

AeroTHON 2025 Hackathon Project

Python, YOLOv8, MAVSDK, OpenCV, Raspberry Pi

- Developed a real-time object detection system using YOLOv8 for disaster classification and payload targeting.
- Implemented multi-threaded perception system for obstacle avoidance.
- Designed autonomous decision-making logic using MAVSDK-Python.
- GitHub: <https://github.com/rangabharathkumar/something>

EDUCATION

VIT Bhopal University

Bhopal

Integrated MTech Computer Science and Engineering Specialization in Cybersecurity

Oct 2022 – Ongoing

Sri Chaitanya kalasala

Hyderabad

Class XII

Jun 2020 – March 2022

Sri Chaitanya School

Hyderabad

Class X

Jun 2020 – Mar 2022

CERTIFICATIONS

- The Bits and Bytes Computer Networking. (Coursera)

EXTRA-CURRICULARS AND ACHIEVEMENTS

- Graphics Designing-(School Pamphlets ,Posters ,Logo ,Packaging designs)
- Core Member, Mozilla Firefox Club VIT-Bhopal. Apr 2024 – July 2025
- Represented Sri Chaitanya School, Badangpet at Running and Tennikoit state level tournament. Dec 2019
- Achieved 2nd Place in VIT Bhopal University Model making competition organized on the occasion of National Mathematics Day. Dec 2023
- Achieved Top 5 projects at VIT Bhopal Project Expo for *Blockchain based Secure Data sharing Platform* Aug 2024

EXPERIENCE

Code Sprin

Mar 2023-May 2023

Campus Representative

- Helped bridge communication between organizers and campus participants.