RAJ MAURYA

B.Tech Student in Mathematics and Computing

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SUMMARY

I am a dedicated B.Tech student majoring in Mathematics and Computing at IIT Mandi, with a strong foundation in Data Science, Cybersecurity, and AI tools. My hands-on experience includes a research intern role focused on NP-Completeness and the successful completion of several projects in web development, cybersecurity, and machine learning. I strive to enhance my skills through participation in hackathons and contribute to meaningful projects

EXPERIENCE

Research Intern

Theoretical CS

📅 12/2024 - 01/2025   📍 IIT Mandi, India

Research internship focusing on NP-Completeness
- Studied reductions and complexity classes in decision problems
- Worked on encoding NP-hard problems in SAT for experimentation

EDUCATION

B.Tech in Mathematics and Computing

IIT Mandi

📅 08/2023 Current   📍 Mandi, India   CGPA: 8.86

LANGUAGES

English
Proficient
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Hindi
Native
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TRAINING / COURSES

Relevant Courses

Included courses on Data Science, Probability & Statistics, Data Structures & Algorithms, Machine Learning, Cybersecurity, Deep Learning, Networking, Operating systems

PROJECTS

MatBot

Bot for MATLAB problem-solving
- Designed a bot to solve MATLAB-related issues during a hackathon

STRENGTHS

⭐ **Continuous Learning**
Committed to continuous learning and innovation in technology fields

KEY ACHIEVEMENTS

☆ **Portable Oxygen Concentrator Prototype**
Successfully built an industry-level working prototype of a Portable Oxygen Concentrator

🚩 **DeepFake Model**
Developed a DeepFake detection model from scratch to classify real vs. manipulated videos using deep learning techniques

🚩 **Child Activity Monitoring App**
Created an app to monitor children's device activity with timely alerts to parents

SKILLS

Bash   Blockchain (Basic)   C/C++

Cybersecurity   Data Structures

Deep Learning   Flask   Git

JavaScript   Linux   Next.js

OpenCV   Python   React

Robotics (Basic)   TensorFlow

Node.js

PROJECTS

Ethical Keylogger

🔗 https://github.com/rajm012/Ethical-Keylogger

Monitoring tool for parental control

- Designed an ethical keylogger for parental control that captures keystrokes and activities
- Incorporates sentiment analysis to detect signs of cyberbullying

NetSentinel

🔗 https://net-sentinel-three.vercel.app/

Cybersecurity dashboard

- Developed a full-stack cybersecurity dashboard for network analysis
- Includes real-time and historical data visualization

MovieFlix

🔗 https://cine-phile-sable.vercel.app/

Cinema ticket booking application

- Created a full-featured cinema ticket booking application with an integrated admin management panel
- Features include wishlist, seat selection, and admin dashboards

Genweb

🔗 https://genwebai.vercel.app/

AI Website Builder

- An AI-Powered website builder built with Next.js, designed to streamline web development using modern tools. Auto deployment of generated webs
- Auto deployment of webs generated

CERTIFICATIONS

Blockchain Development Bootcamp

Bootcamp covering blockchain development techniques

Data Science using Python

Data Science certification focusing on Python principles and applications

Cybersecurity Essentials

Fundamentals of cybersecurity provided by IBM SkillsBuild

Machine Learning

Machine learning concepts taught by Andrew Ng through online courses