

# Harjot Singh Raith

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## Education

<b>New Horizon Scholars School, Thane</b> Central Board of Secondary Education (CBSE)	June 2015 – May 2020 Grade: 90.4%
<b>Shubham Raje Junior College, Thane</b> Maharashtra State Board of Secondary and Higher Secondary Education, Science	June 2020 – May 2022 Grade: 85.83%
<b>Narsee Monjee Institute of Management and Studies, Navi Mumbai</b> B.Tech in Artificial Intelligence and Data Science	August 2022 – July 2026 GPA: 3.23/4.0

## Experience

<b>eYantra Summer Intern at IIT Bombay</b> <a href="#">Certificate</a> <a href="#">🔗</a> eRTS Lab, IIT Bombay	IIT Bombay, India May 2024 – July 2024
<ul style="list-style-type: none"><li>○ Analyzed user interaction logs using Python, Google OCR for video log generation and CNN for bad quality videos.</li><li>○ Collected and cleaned log data via Laravel website via an API to assess scaffold availability and dwell time of each scaffolds</li><li>○ Applied visualization techniques and pattern recognition to analyze user behavior, optimize scaffolding, and enhance engagement using clustering, heatmaps, sequence analysis, and predictive modeling.</li></ul>	

## Publications

<b>Enhancing and analyzing log generation for Collaborative Problem-Solving activities: Video analysis and OCR techniques</b>	May 2024 – present
Suprabha Jadhav, <b>Harjot Singh Raith</b> , Parth Jain, Sridhar Iyer, Kavi Arya (To be Published in Springer under Microsoft Compute 2024 to be held at IIT Gandhinagar)	

## Projects

<b>Cryptofile-Secure File Encryption Web App</b> <a href="#">Github</a> <a href="#">🔗</a>	
<ul style="list-style-type: none"><li>○ Developed a browser-based app for secure local file encryption and decryption using chunked AEAD stream encryption. Ensured privacy by enabling offline use with modern cryptographic algorithms.</li><li>○ Tools Used: NextJS, ReactJS, Libsodium Wrappers, PrismJS, Zxcvbn, Cypress, Dockerfile</li></ul>	
<b>Opportunet-A Job Search and Recruitment Platform</b> <a href="#">Github</a> <a href="#">🔗</a>	
<ul style="list-style-type: none"><li>○ A platform connecting job seekers with employers. It provides features such as AI powered mock interviews, real time code editor and personalised courses for an intuitive job search experience</li><li>○ Tools Used: React, Tailwind CSS, Node.js, Express.js, MongoDB, Cloudinary, OpenAI API, ThreeJS, Groq, Socket.io</li></ul>	
<b>Energyia Gym App</b> <a href="#">Github</a> <a href="#">🔗</a>	
<ul style="list-style-type: none"><li>○ An AI-powered fitness app that helps users maintain proper posture during exercise through real-time motion tracking. It uses OpenCV and MediaPipe to detect incorrect positions and provides feedback to reduce injury risk.</li><li>○ Tools Used: Android Studio, OpenCV, MediaPipe, WebSocket, Firebase, Camera2 API, Vercel.</li></ul>	

## Technologies

<b>Computer Skills:</b> C, C++, Python, Linux (Ubuntu), Verilog, VHDL, R, MATLAB, AutoCad, Blender, ROS
<b>Libraries and Frameworks:</b> NLTK, SpaCy, Tensorflow, PyTorch, Scikit-learn, OpenCV, MediaPipe, WebSockets
<b>Relevant Coursework:</b> Data Structures and Algorithms, Discrete Mathematics, Probability and Statistics, Application Development, Computer Networking, Database Management System, Machine Learning, Cryptography and Network Security.

## Online Courses and Certification

<b>Cloud Computing :</b> NPTEL Online Certification, IIT Kharagpur	<a href="#">Certificate</a> <a href="#">🔗</a>
<b>SQL Fundamentals :</b> DataCamp	<a href="#">Certificate</a> <a href="#">🔗</a>
<b>Power BI Job Simulation :</b> PwC Switzerland, Forage	<a href="#">Certificate</a> <a href="#">🔗</a>
<b>Competitive Programming Essentials, Master Algorithms :</b> Coding Minutes, Udemy	(ongoing)

## Achievements

Won Judges' Choice Award as one of the top 10 teams out of 299 at eYIC 2023-24 Finals, IIT Bombay.	<a href="#">Certificate</a> <a href="#">🔗</a>
Won 2nd place in the VOIS International Hackathon 2024 by Vodafone, held across India, Romania and Egypt	<a href="#">Certificate</a> <a href="#">🔗</a>
Competed in over 20 hackathons, securing 8 wins and numerous awards.	<a href="#">All Certificates</a> <a href="#">🔗</a>

## Position and Responsibility

Core member of the Manthan Club, NMIMS Navi Mumbai	September 2022 - Jan 2023
Head of the Robotics Club, NMIMS Navi Mumbai	July 2024 - present