

Mandarke Ronit Pai

Karnataka, India
github.com/Ronit-Pai

Email : ronit14pai06@gmail.com

Mobile : +91 8197061410

<https://www.linkedin.com/in/ronit-pai-85370a356/>

EDUCATION

- **NMAM Institute of Technology (NMAMIT)** 2024 – 2028
B.Tech., Computer Science & Engineering CGPA: 9.9/10.00 Karnataka, India
 - **Coursework:** Object Oriented Programming, Database, Operating System, Front End Web Development
- **Karkala Jnanasudha P.U. College** 2022 – 2024
Pre-University Education — PCMS Aggregate: 97.5% Karnataka State Board

PROJECTS

- **Kaira-AI — JavaScript, Vite, React:** Mental health supportive AI chatbot web app that engages users in compassionate conversation, offers speech-to-text and text-to-speech support, and provides resources for stress and emotional well-being. Built as a responsive interactive frontend with modern tooling.
- **A Comprehensive Assessment of Machine Learning Approaches for Lung Disease Classification Based on Structured Clinical Data — Research Paper (Under Publication):** Conducted an empirical study on supervised machine-learning models for lung-disease classification using structured clinical datasets. Implemented data preprocessing, feature engineering, and model benchmarking using Python, Pandas, NumPy, Scikit-learn, and Matplotlib; evaluated classifiers such as Logistic Regression, Random Forest, SVM, XGBoost, and k-NN with cross-validation and performance metrics (accuracy, F1-score, ROC-AUC).
- **Gesture-Controlled Mouse — Python, OpenCV, MediaPipe:** Built a real-time hand gesture-driven mouse control system using computer vision. Leveraged MediaPipe for hand detection and landmarks, mapped gestures to mouse actions (move, click, scroll) with OpenCV for image capture and processing.
- **ThreeJs Solar System — Three.js, JavaScript, HTML, CSS, Vite.js:** Interactive 3D solar system visualization with planetary orbits, lighting, and user camera controls in the browser; hosted live demo available at three-js-solar-system.vercel.app.

EXTRA-CURRICULAR ACTIVITIES

- **Workshops:** Attended Git & GitHub workshop , DSA Sprint , Full-Stack Deveelopment
- **Training:** Contributed as a Tech Volunteer to Promptstorm event held by ACSA NMAMIT, mentoring freshers in Web Development , Git & GitHub and use of AI Agents

ACHIEVEMENTS

- **Hackloop S03 & S04:** Finalist, FLC Internal Hackathon
- **Vibeathon:** Finalist, CSI Event

SKILLS

- **Languages:** Python, HTML5, CSS3, JavaScript (ES6), TypeScript, C++
- **Frameworks & Libraries:** React.js, Next.js, Django, Tailwind CSS ,Pandas, PostgreSQL
- **Tools & Tech:** Git, GitHub, Vercel, VS Code, Figma, Canva

MEMBERSHIP

- **Finite Loop Club, NMAMIT:** Member, 2024 – Present
- **Computer Society of India (CSI), NMAMIT:** Exclusive Member, 2024 – Present