KARTIK J HIREMATH

Bengaluru, Karnataka

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EDUCATION

- **Ramaiah Institute of Technology, Bengaluru**
  - B.E - Information Science and Engineering - CGPA: 9.03 (Graduation: 2026)
- **Vidyaniketan PU College Hubli**
  - 12th State Board - 96.5%
- **K.L.E Society's School Gadag**
  - 10th CBSE Board - 87.4%

TECHNICAL SKILLS

- **Programming Languages:** Java, C, Python, Solidity
- **Databases:** MySQL, SQLite, MongoDB
- **Technologies & Tools:** FastAPI, OpenCV, PyTorch, Albumentations, Google Colab, Foundry, Git, GitHub, Unix Programming, MacOS
- **Concepts:** Operating Systems, DBMS, Computer Networks, Computer Vision, Cloud Computing, Blockchain

CODING PLATFORMS

- Solved 350+ Problems on LeetCode

PROJECTS

- **KLMGameCraft (Software Engineering Project) - GitHub**
  - Technologies Used: Java, Spring Boot, MySQL, FastAPI, Git
  - Description: Followed all phases of the Software Development Life Cycle (SDLC) to develop a multiplayer online game platform. This was my first time working on a project with a large team of 10 members, where we gained valuable experience in team collaboration.

- **Weather MultiApp (DevOps Project) - GitHub**
  - Technologies: HTML5, CSS3, Vanilla JavaScript, Docker, Jenkins, SonarQube, OpenWeatherMap API
  - Description: Built a production-ready, India-focused weather app with vanilla HTML, CSS, and JavaScript, integrating real-time weather data from OpenWeatherMap and IMD. On the DevOps side, the project uses Docker for containerization, Jenkins for CI/CD automation, and SonarQube for code quality checks. Deployed on Render with GitHub auto-deploy, ensuring seamless updates and monitoring.

- **Dental Radiography Analysis (Deep Learning + Computer Vision Project) - GitHub**
  - Technologies: Python, PyTorch, Albumentations, OpenCV, Google Colab, Faster R-CNN, MobileNetV3, ResNet50
  - Description: Implemented a deep learning pipeline to detect dental anomalies (Cavity, Fillings, Implants, Impacted Tooth) from X-ray images using object detection models (Faster R-CNN with ResNet50 and MobileNetV3), with class balancing, data augmentation, and CLAHE-based image enhancement.

- **Hand Gesture Volume Control (Computer Vision Project) - GitHub**
  - Technologies Used: Python, OpenCV, Mediapipe, NumPy
  - Description: Built a real-time hand gesture-based volume control system using webcam input. It tracks the distance between the thumb and index finger to adjust system volume across Windows (pycaw), macOS (AppleScript), and Linux (amixer). Includes an on-screen volume bar and percentage display. Currently expanding into other gesture recognition applications.

CERTIFICATES AND BADGES

- Cloud computing fundamentals
- Network security in Google cloud
- Fundamentals of AI

EXTRACURRICULAR

- Active member of the National Service Scheme (NSS) team, contributing to community welfare activities.
- Competed in college technical events (Blinding Bytes, Debug Derby - IEEE club) and hackathons (Whackiest, Dark Pattern Hackathon), demonstrating innovation and problem-solving.
- I learned tabla in the past.