

# KIRAN BANKAPUR

📍 Bengaluru ✉ kiranbankapur001@gmail.com ☎ 8431346933 in Kiran Bankapur 🌐 KiranBankapur002

## Professional Summary

Information Science Engineering undergraduate with hands-on experience in full-stack development, AI-driven systems, and cloud-enabled applications. Experienced in building scalable web platforms using C, Java, Node.js, and MongoDB, with strong foundations in operating systems, data structures, and applied machine learning. Proven ability to translate requirements into reliable, user-focused solutions through academic projects, hackathons, and industry exposure.

## Education

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| <b>New Horizon College of Engineering, Bangalore</b><br>Bachelor of Technology in Information Science Engineering | <i>Nov 2023 – May 2026</i> |
| <b>K.L.E Society's C.I. Munavalli Polytechnic, Hubli</b><br>Diploma in Mechanical Engineering                     | <i>Jul 2019 – Jun 2022</i> |
| <b>New English School, Hubli</b><br>Karnataka State Board (KSEEB)   | <i>Jul 2018 – Jun 2019</i> |

## Experience

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| <b>Assistant Engineer Trainee — Toyota Industries Engine India Pvt. Ltd.</b>   | <i>Oct 2022 – Oct 2023</i> |
| <ul style="list-style-type: none"><li>Collaborated with tool and manufacturing engineers to perform precision measurements and analytical evaluations, improving cutting tool efficiency and operational reliability.</li><li>Supported R&amp;D initiatives by assisting in the design and validation of tooling solutions, contributing to enhanced manufacturing productivity.</li></ul> |                            |

## Technical Skills

**Programming Languages:** C, Java, JavaScript, Python  
**Web Technologies:** HTML, CSS, Node.js, EJS  
**Databases:** MySQL, MongoDB  
**Core Concepts:** Data Structures, Operating Systems, Linux, OOP  
**Tools & Platforms:** Git, GitHub, Arduino, SAP ERP, Cloud Dashboards

## Projects

### NEXUS — Note-Taking and Task Management System

- Tools Used:** HTML, CSS, EJS, Node.js, MongoDB
- Implemented real-time note creation, editing, archiving, and deletion features for efficient task handling.
- Integrated the Pomodoro Technique to enhance focus and time management during work or study sessions.
- Developed a custom Hisen Hover Matrix to visually classify tasks based on priority and skippability.
- Enhanced user experience with responsive UI and interactive hover effects for intuitive task organization.

### Agriculture Robot for Soil and Plant Health Monitoring

- Tools Used:** Python, AI, ML, Predictive Analysis
- Designed and developed an AI and ML-based agriculture robot integrating multiple sensors for real-time soil and plant health monitoring.
- Implemented a system to analyze soil data and plant leaf color variations for accurate health assessment using predictive analytics.
- Established an Arduino Cloud dashboard for remote monitoring and visualization of sensor data.

### ODYSSEY — Tourism Website with AI Virtual Tour Guide

- Tools Used:** HTML, CSS, EJS, Node.js, MongoDB, AI
- Led the development of an AI-driven tourism platform designed to deliver immersive and personalized travel experiences.

- Integrated 360-degree panoramic views of cultural heritage sites to enable interactive virtual exploration.
- Implemented an AI-based virtual tour guide and chatbot offering personalized travel plans, booking suggestions, and predefined itinerary prompts.
- Designed a Safety Compass feature to deliver safety ratings for travel destinations by analyzing crime rates, terrain difficulty, and user reviews.
- Created a dynamic blogging section for users to share personal travel stories and local insights, enhancing community engagement.

#### **AskMarket — AI-Powered Fund Insight and Explanation System**

- Hackathon Project — MyFi Challenge: *“NewsSense: Why Is My Fund Down?”*
- **Tools Used:** HTML, CSS, EJS, Node.js, MongoDB, AI, Hugging Face Transformers
- Developed a financial analysis platform that explains mutual fund and ETF price fluctuations by correlating them with real-world news events.
- Integrated a Hugging Face-powered chatbot to answer natural language queries about fund performance.
- Trained a model on a curated mutual fund dataset to predict future prices and visualize fund-news sentiment correlation through an interactive dashboard.

#### **NimmaFotographer — Photographer Portfolio Website**

- Freelance Project — Client-Based
- **Tools Used:** HTML, CSS, EJS, Node.js
- Designed and developed a visually compelling, responsive portfolio website for a professional photographer to showcase categorized work.
- Integrated dynamic image galleries and smooth animations to enhance user engagement and visual appeal.
- Implemented a functional contact form with email integration for client inquiries and communication.
- Added social media profile links to promote the photographer’s online presence and facilitate future hiring opportunities.

### **Certifications, Achievements, and Activities**

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- **Research Publication:** IEEE Xplore published paper titled *SmartHealth Grid: A GIS-Based System for Emergency Medical Resource Allocation*.
- **SAP Certification:** Cloud Onboarding for SAP Cloud ERP Private (2025).
- **NPTEL Certifications:** Operating System Fundamentals; Software Testing.
- **Professional Certification:** Enterprise Data Science in Practice — SkillBuild.
- **Technical Training:** Android App Development Using Kotlin — Spoken Tutorial, IIT Bombay.
- **Advanced Program:** Alpha — Data Structures and Algorithms with Java, Apna College.
- **Competition Achievement:** Secured 2<sup>nd</sup> place in Battle of Lines at ROBOFIESTA 2024.
- **Hackathons & Technical Events:** Participant in GenAI Hackfest 2025, Quantum Hackathon 2025, and 20th ISTE Codethon.
- **Professional Membership:** Member of Hawkeye Robotics Team, with hands-on experience in robotics systems.

### **Declaration**

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I hereby declare that the information provided above is true and correct to the best of my knowledge and belief. I take full responsibility for the authenticity of the details mentioned.