Sanjana Hosmath

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EDUCATION

• **KLE Technological University, Hubli** — *2022 - 2026*
B.E Electronics and Communication Engineering (6th Sem) — CGPA : 7.71

• **KLE PRERANA PU COLLEGE , Hubli** — *2020 - 2022*
Class XII — Percentage : 81.5

• **ST. Michael's High School , Hubli** — *2019 - 2020*
Class X — Percentage : 88.64

SKILLS

Languages : C, C++, Python
Web Technologies : HTML, CSS, JavaScript
Core Competencies : OOPS, Operating System, Computer Networks, DBMS, Cloud Computing
Web Tools : Docker, Kubernetes, Gradio, Selenium
Databases : MySQL, MongoDB
Soft Skills : Problem Solving, Team Collaboration, Time Management, Leadership

EXPERIENCE

• **Cyber Security Intern - Center for Intelligent Mobility** — *Oct 2024 - Mar 2025*
  – Implemented the Kyber post-quantum cryptographic algorithm on STM32F411CEU6, generated public-private key pairs, and established a shared secret.
  – Integrated core components including Number Theoretic Transform (NTT) and SHAKE128-based RNG for key generation and secure encapsulation.

PROJECTS

• **Nature's Basket – Organic Farm Tech Portal   (view)** — *2024 - 2025*
  – Developed a web platform to connect farmers and buyers with product listings, educational content, and a community section.
  – Implemented user and farmer signup, cart management, and a checkout system with live stock updates.
  – Designed a responsive UI with HTML, CSS, and JavaScript, and ensured reliability using Selenium-based automated testing.

• **VoiceSense - AI Powered IoT Data Summarizer** — *2023 - 2024*
  – Developed a GenAI-powered smart home voice assistant with speech recognition, text summarization, and TTS to analyze IoT sensor data via natural voice commands.
  – Built an interactive dashboard with real-time appliance monitoring, AI-generated summaries, and workflow visualization for actionable insights.

PUBLICATIONS

• **2025 IEEE INSPIRE** : Post-Quantum Cryptography, Kyber Implementation on STM32series (accepted)

ACHIEVEMENTS

• **GENIFY 2024 - 25** : Achieved Top 20 position among 200+ innovative projects

• **PUPA 2022 - 23** : Showcased a walking stick with foldable chair for the elderly.

CERTIFICATIONS

• HackerRank – 4 star in C, C++

• Juniper – JNCIA-Junos (Junos Associate)

• NPTEL – Cyber Security and Privacy

• IBM – Python 101 for Data Science

• IBM – Docker Essentials: A Developer Introduction