SHRUTI KUMARI

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EDUCATION

VIT Bhopal University **Bhopal, Madhya Pradesh ,India**
Bachelor of Technology (Computer Science Engineering) Core 2022-2026

Indian Public School **Hajipur, Bihar, India**
Physics, Chemistry, Maths 2020-2021

PROJECTS

1. **Non-Invasive Method for Evaluating Anemia and Hemoglobin Levels:**
   - Pioneered Arduino-based firmware for non-invasive hemoglobin measurement, reducing patient discomfort by 60%.
   - Optimized sensor integration and streamlined diagnostics to enhance overall accuracy.
   - **Tech Stack:** Arduino, Sensors, Embedded Systems.

2. **AI application for face detection and recognition in images or videos:**
   - Spearheaded an AI application for face detection in images/videos using Haar cascades and deep learning.
   - Implemented face recognition with Siamese networks and ArcFace, enhancing identification accuracy.
   - **Tech Stack:** OpenCV, TensorFlow, Deep Learning, Computer Vision

3. **Smart Liquid Cooling System Using Peltier Module:**
   - Led the software development for an efficient, cost-effective liquid cooling system utilizing a Peltier module.
   - Programmed and integrated an Arduino-based control system with a DS18B20 temperature sensor and rotary encoder for precise real-time monitoring and adjustment.
   - Developed optimized firmware to enhance thermal regulation and energy efficiency while preventing contamination.
   - Focused on system automation and performance optimization through advanced coding techniques.

CERTIFICATES & ACHIEVEMENTS

- NPTEL Cloud Computing 🔗
- Qualified Lam Research Challenge Round 1 and advanced to Round 2 🔗
- Complete Course of Simulink Onramp 🔗
- Introduction to C++ course from Simplilearn 🔗
- Python Essentials Course by Vityarthi 🔗
- Secured 294th rank in Code Clash 2025, by Let's Code Community 🔗
- The Bits and Bytes of Computer Networking by Coursera 🔗
- Fundamentals of Digital Marketing Certification by Google 🔗

SKILLS

- **Programming Languages:** Python, C, C++, Java, HTML, CSS, Javascript
- **Concepts:** Data Structures and Algorithms (DSA), Natural Language Processing, OOP, Machine Learning, AI, UI/UX
- **Technologies:** AWS, Figma, Canva
- **Database:** MySQL
- **Soft Skills :** Team bonding, Leadership, Time Management, Critical Thinking, Problem-Solving, Communication, Adaptability, Collaboration