SAURABH NARIYA

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SUMMARY

Motivated **Computer Science Engineering** graduate with a Diploma background in **Electronics & Communication Engineering** and hands-on experience in web development, Python, and machine learning through internships at **CSIR-CBRI** and **THDC India Ltd.** Experienced in developing web-based applications, real-time computer vision systems, and database-driven platforms. Strong interest in contributing to ICT-based education tools, web-enabled virtual labs, and academic research projects.

TECHNICAL SKILLS

- **Programming & Web :** Python, HTML, CSS, JavaScript, Bootstrap, React.js, Node.js, Django
- **Databases:** MySQL, MongoDB
- **Testing Tools:** JIRA, Selenium
- **Machine Learning & CV:** TensorFlow, OpenCV
- **Concepts:** Data Structures , Oops, SQL.
- **Tools & Platform:** Android Studio, PyCharm, Visual Studio, Git, GitHub, Postman

WORK EXPERIENCE

- ❖ **App Development Intern at CSIR-CBRI (Central Building Research Institute) ROORKEE.**   **June 2024 – August 2024**
  - ▪ Developed and integrated **machine learning models** for heart rate measurement using face detection via camera, **utilizing TensorFlow and OpenCV.** The model was built in **Python** with **signal processing techniques** to extract pulse from real-time video frames.

- ❖ **Web Development Intern at THDC(Tehri Hydro Development Corporation) INDIA LTD.**   **January 2024 – February 2024**
  - ▪ Developed Document Management System (DMS) **using JavaScript, Bootstrap, React.Js and MySQL**, **django** focuses on organizing, storing, and retrieving documents efficiently while providing user-friendly interfaces and database-driven management of files.

PROJECTS

- ❖ **FOODIE – ONLINE FOOD ORDERING WEB APPLICATION**
  - ▪ **Overview:** Developed a full-stack online food ordering web application with user authentication, cart management, order placement, and a responsive interface, simulating a real-world food delivery platform.
- **Technologies Used:** HTML, CSS, JavaScript, React.js, Node.js, Express.js, MongoDB
  - ▪ **Key Features & Achievements:**
    - ○ **Implemented** secure user authentication, food listing, cart management, and order placement with dynamic order handling.
    - ○ **Developed** RESTful backend APIs and database integration to manage users, food items, and orders efficiently.
    - ○ **Deployed** a fully responsive, cloud-hosted web application simulating a real-world end-to-end food ordering system.

- ❖ **HEART RATE MEASUREMENT USING FACE DETECTION**
  - ▪ **Overview:** Developed a Python-based system to detect heart rate from facial video using camera input.
- **Technologies Used:** Javascript, django, TensorFlow, OpenCV, Unit Testing.
  - ▪ **Key Features & Achievements**
    - ○ **Implemented** real-time face detection using machine learning to capture facial video input.
    - ○ **Analyzed** skin regions (forehead and cheeks) to track PPG signals and **extracted** heart rate using signal processing techniques.
    - ○ **Achieved** up to **90% accuracy** and **displayed** live heart rate results through real-time camera feed.Achieved **90% accuracy** in HRM.

- ❖ **DOCUMENT MANAGEMENT SYSTEM**
  - ▪ **Overview:** It allows users to store, organize, retrieve, and manage digital documents securely and ensure data accessibility from anywhere with an internet connection.
- **Technologies Used:** Bootstrap, JavaScript, MySQL, React.Js, django
  - ▪ **Key Features & Achievements:**
    - ○ **Implemented** secure user authentication with username and password login.
    - ○ **Designed and developed** document upload and folder-based organization system (create, delete, rename)..
    - ○ **Optimized** document accessibility and security, reducing search time by up to **70%** using role-based access control.

EDUCATION

UTTARAKHAND TECHNICAL UNIVERSITY   Uttarakhand, India
Bachelor of Technology in Computer Science; CGPA: 7.2   **September 2022 – July 2025**

UTTARAKHAND BOARD OF TECHNICAL EDUCATON AND RESEARCH   Uttarakhand, India
Polytechnic in Electronics and Communication Engineering; CGPA: 8.0   **August 2020 – September 2022**

CERTIFICATION AND ACHEIVEMENTS

- ❖ Web Development Internship – See Caller
- ❖ Python Fundamentals for Beginners – Great Learning Academy.
- ❖ Computer Applications Certification – Covered MS Office, Tally, Corel Draw, PageMaker, Photoshop, etc.
- ❖ **Mobile App Testing Internship** – Unit Testing-Tested features, reported bugs, and provided feedback during closed testing phase.
- ❖ Silver Medalist – Discuss Throw at 50th KVS National Sports Meet - 2019
- ❖ Selected twice for North Zone India Games in Kabaddi – 2023 & 2024
- ❖ Winner in multiple college tournaments – Volleyball, Kabaddi, Cricket.

ADDITIONAL INFORMATION

Job Preferences: Open to roles | Prefer Hybrid or Onsite roles.
Availability: Immediate.