AKSHAY UMBARGE

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EDUCATION

SAVITRIBAI PHULE PUNE UNIVERSITY   Pune, MH
Bachelor of Technology in Computer Engineering   Nov 2022 - June 2025
G H Raisoni College Of Engineering & Management Pune

  Cumulative GPA: 7.8/10.
  Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Algorithms; Machine Learning; Computer Networks; Database Management; Web Development; Object Oriented Programming

Puranmal Lahoti Government Polytechnic   Latur, MH
Studied Diploma in Computer Engineering   June 2020 - May 2022

  Cumulative Percentage: 89.43%

EXPERIENCE

SOFTWARE ENGINEER INTERN | DisruptiveNext (Phoenixgen)| June 2024 - Dec 2024
- Built cross-platform apps using FlutterFlow, focusing on responsive UI and smooth user experience.
- Integrated REST APIs and managed backend using Supabase and Firebase for real-time data handling.
- Collaborated with teams to deliver scalable features using Git and agile tools.
- Implemented custom actions and state management for dynamic front-end logic.

PROJECTS

OPTIMIZING URBAN PARKING WITH IOT & CLOUD-BASED ANALYTICS (Link)   May 2025
- Built a Smart Parking System using ESP32, IR sensors, and AWS Cloud for real-time space detection.
- Integrated IoT and cloud to automate parking management and reduce traffic congestion.
- Developed mobile/web interface for real-time slot booking and availability updates.
- Used cloud analytics to predict peak hours and optimize space utilization.
- Enabled data-driven decisions for smart city parking through live monitoring and reporting tools.

SECURE CORE BANKING TRANSACTIONS SYSTEM (Link)   Aug 2025
- Engineered a modular banking desktop app using Java Swing for secure user registration and account management.
- Integrated MySQL via JDBC to execute persistent, real-time transaction updates and CRUD operations.
- Secured user credentials using SHA-256 hashing, preventing plain-text data exposure in the database.
- Enforced **data integrity** for financial transactions using robust Regex-based input validation.

FACE DETECTION USING PYTHON OPENCV   Oct 2024
- Developed a Python-based project leveraging OpenCV library for camera access and face recognition library for facial recognition.
- Implemented functionality to capture live video feed from the camera.
- Integrated a CSV file system to maintain attendance records, automatically marking attendance upon face recognition.

TECHNICAL SKILLS

Programming Languages: HTML/CSS, JavaScript, C++, Java, Python, Sql
Frameworks & Tools : Django Framework, Firebase, Supabase, Git, GitHub, VSCode, FlutterFlow.
Soft Skills: Effective Communication; Time Management
Languages: English, Hindi, Marathi
Certifications & Training: Online Course Soft Skills (SWAYAM), Online Courses on Cloud (IBM), Online Course on Introduction to Internet of Things (SWAYAM)

ACTIVITIES

COMET FORUM   Pune, MH
Volunteer
Managed technical systems and coordinated backend event logistics, ensuring smooth digital operations during the college NEP initiative.