

Sarthak Mhalsekar

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OBJECTIVE

I am an enthusiastic machine learning engineer and front-end developer, specializing in deep learning, Federated Learning, and privacy-preserving techniques. I am passionate about creating intuitive, responsive, and user-friendly front-end interfaces while ensuring the security and efficiency of data analysis through cutting-edge technologies.

EDUCATION

Don Bosco College of Engineering Bachelors of Engineering in Computer Engineering	June 2021 - June 2025 Cgpa: 7.46
Cuncolim United Higher Secondary School Senior Secondary (Class XII)	Aug 2019 – Aug 2021 Percentage: 62
Our Lady of Health High School Secondary (Class X)	March 2019 Percentage: 71

PROJECTS

Federated Learning Based Approach for Medical Data

- Used the **APTOS 2019 Blindness Detection** dataset (Kaggle) for image preprocessing tasks.
- Developed pipelines with cropping, resizing, normalization, and Gaussian filtering to optimize data for deep learning models.
- Enhanced image focus using circular cropping, background removal, and Gaussian filtering for improved accuracy.
- Applied Federated Learning to train models across distributed datasets while ensuring data privacy.

Car Rental System

- Designed and developed responsive user interfaces using **HTML, CSS, JavaScript** and **Bootstrap**, ensuring cross-browser compatibility.
- **Developed a User-Friendly Booking System:** Designed and implemented a seamless car booking experience for customers, allowing them to select pickup and return dates, choose from three locations, and securely pay online.
- **Integrated Payment Gateway and Admin Dashboard:** Successfully integrated a payment gateway to facilitate online transactions and created an admin dashboard for managing car availability, tracking profits, and overseeing customer bookings.
- **Improved Customer Experience with Personalized Booking Section:** Developed a dedicated booking section for customers to view their past and upcoming bookings, including details such as car model, rental dates, and location, enhancing their overall experience.

Hotel Management System

- Delivered a comprehensive **Hotel Management System** by developing the **Frontend**, focusing on automating key operations such as reservations, billing, and customer check-ins.
- Enhanced user-centric interfaces, integrating modern frameworks to enhance user experience and operational efficiency.
- **Technologies used:** HTML, CSS, JavaScript, MySQL

EXPERIENCE

Web Developer Intern Mograsy Technologies	Jul 2024 - Aug 2024
<ul style="list-style-type: none">• Performed extensive cross-browser testing across major platforms, ensuring seamless functionality and consistent design for diverse user bases.• Leveraged Bootstrap and responsive design principles, ensuring compatibility across devices.• Implemented and managed server-side logic, focusing on APIs and SQL databases to ensure seamless integration.	

CERTIFICATIONS

- Google Android Developer Certification
- AI-ML Virtual Internship
- Introduction to Machine Learning

SKILLS AND INTERESTS

Programming Languages	C, C++, Java, Python JavaScript
Frontend Technologies	HTML5, CSS3, Bootstrap, React.js, Node.js
Database	SQL
UI/UX Design	Figma
Version Control System	Git, GitHub
Soft Skills	Critical thinking, Data-driven decision making, Project ownership

HOBBIES AND INTEREST

- Cycling
- Cricket
- Chess