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** June 2021 - June 2025

Bachelors of Engineering in Computer Engineering **Cgpa: 7.46**

**Cuncolim United Higher Secondary School** Aug 2019 – Aug 2021

Senior Secondary (Class XII) **Percentage: 62**

**Our Lady of Health High School** March 2019

Secondary (Class X) **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 | Mograsys Technologies** Jul 2024 - Aug 2024

* 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

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# 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

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