SAURABH SUDHIR MELGIRKAR

Python Full-Stack Developer

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portfolio : https://saurabhmelgirkar.github.io/portfolio-/

SUMMARY

A Dedicated and solution-oriented graduate of computer science, presently enrolled in D. Y. Patil Institute's MCA program. Skilled in Python, Java, JavaScript, SQL, and contemporary development tools, with a solid background in full-stack projects such as an AI-powered yoga trainer and an Internet of Things-based home automation system that reduced energy consumption by 15%. Awarded at university and state levels for innovation and technical excellence. eager to provide forward-thinking development teams with useful, real-world solutions.

Technical Skills :- Python, Java, JavaScript Object-Oriented Programming (OOP) Web Development: HTML5, CSS3, Bootstrap, React.js,Flask , Django MVC Architecture ,Database Management: MongoDB, MySQL, Oracle 10g, SQL Handling: CRUD Operations, Data Structures & Algorithms, AI/ML Tools: pandas,numpy,TensorFlow, OpenCV, ChatGPT, Gemini,Copilot.
Soft Skills: Team Collaboration, Problem Solving, Time Management, Adaptability

EDUCATION

Master of Computer Application (MCA) | DY Patil Institute of MCA and Management, Akurdi | 2024 - 2026- Current SGPA: 7.58 (Semester I)

Bachelor of Science in Computer Science | MGM's College of CS and IT, Nanded | 2021 - 2024- CGPA: 8.0

Grade XII | Siva Sivani Jr College, Hyderabad | 2021- Score: 79% (Telangana Board)

Grade X | P. Jog School, Pune | 2019- Score: 80.20% (SSC Board

Projects

YogaMate

•Technologies: python ,AI & ML,tenserflow,cv2,Html css bootstrap.Developed A yoga training project designed to evaluate and guide individuals in their execution of proper yoga poses."Triumph at Aavishkar 2024: Revolutionized yoga with Yogamate, the cutting-edge ML model, achieving top honours ▪ Implemented an advanced 8-node Artificial Neural Network in our machine learning assistance model ▪ Leveraged 10-15 Python libraries such as NumPy, Mediapipe and OpenCV to build our innovative model ▪ Secured 3rd place at district and university level, showcasing our excellence and qualifying for state finals

IOT Based Home Automation

Developed a home automation system that reduced energy consumption by 15% through efficient device management.▪ Implemented an ESP32 microcontroller to enable remote control of devices from anywhere in the world
▪ Showcased the innovative home automation system, emphasizing its advanced features and capabilities
▪ Delivered a compelling presentation that earned 3rd place and secured Rs 5,000 at the state competition

Complain Portal

•Technologies: HTML,CSS,php
•Outcome: Developed centralized complaint management: A single platform for users to submit, track, and resolve complaints.

Emoify

•Technologies: HTML,CSS, python, numpy tensirflow, Cv2.,flask.
•Outcome: Developed website. To change the mood through music it will detect your emotions and based on that suggest you music

Experience

OASIS INFOBYTE | IT / Computers - Software 05 Jun, 2025 - 15 Jul, 2025

iI successfully completed a one-month AICTE OIB-SIP internship in Python Programming at Oasis Infobyte from June 5, 2025, to July 15, 2025, gaining hands-on exposure to Python fundamentals, object-oriented programming, file handling, data structures, and essential libraries. I worked on multiple practical tasks and mini-projects, significantly enhancing my coding efficiency, logical reasoning, and ability to write clean, optimized code, all while adhering to structured deadlines. This experience provided a clear understanding of Python's application in real-world scenarios, including automation, data manipulation, and algorithm implementation, with focused training on debugging and error handling. Guided by mentors who offered constructive feedback, the internship successfully bridged my academic knowledge with industry practices, building a strong foundation in Python and boosting my confidence to pursue advanced projects in software development and data-driven applications.

Full Stack Web Developer | TEDx DYPAKURDI React.js, Node.js, MongoDB Atlas, Razorpay, Google Sheets API

I developed and deployed a full-stack TEDx ticket booking platform using React for the frontend and Node.js/Express for the backend. I integrated Razorpay for secure online payments and enforced booking limits, successfully managing a maximum of 400 tickets across morning and evening sessions. The platform featured real-time ticket status updates, displaying "Sold Out" immediately upon full booking. I automated both PDF ticket generation and the corresponding email notifications with attached tickets after a successful booking. The robust backend workflows were designed to store all user and transaction data in MongoDB Atlas while simultaneously and automatically appending all booking details to Google Sheets via API integration for administrative tracking.

Achievement

▪Excelled QSpider's aptitude test and group discussion, securing a full scholarship for 3+ extensive courses
▪ Led the team to 1st place at TechExpo 2024 with the presentation of Yogamate; Yoga Assistance ML Model
▪Secured 1st place at TechExpo 2023 with an innovative input-based Digital Complaint Management System
▪ Secured 3rd prize at university-level Aavishkar Project Competition
▪ Secured 3rd prize at university-level Chess Competition
▪ Secured 1st place at district-level Maharashtra Student Innovation Challenge
Published Research Paper on Emoify Emotiin based Music recommendation system.
Published Research paper on AI-Augmented Digital Twin for Personalized Learning in Virtual Classrooms

LANGUAGE: ENGLISH , HINDI, MARATHI **INTRESTS:** Playing chess Listening musi