Soham Manish Sawalakhe

Amravati, India |7558496659 | sohamsawalakhe@gmail.com | LinkedIn | Portfolio | GitHub

PROFESSIONAL SUMMARY

Computer Engineering graduate skilled in **Python, web development, data analytics**, and **machine learning fundamentals**. Experienced in creating scalable web and data-driven applications using Django, REST APIs, SQL, and Power BI. Focused on writing clean, efficient code and delivering performance-optimized solutions. Passionate about continuous learning, teamwork, and solving real-world problems through technology.

TECHNICAL SKILLS

- **Programming Languages**: Python, JavaScript, HTML, CSS, SQL
- **Frameworks & Libraries:** Django, Flask, Tkinter, REST APIs, Bootstrap, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
- **Databases & Tools:** MySQL, SQLite, Power BI, Excel
- **Version Control & Development Environment:** Git, GitHub, Postman, VS Code

WORK EXPERIENCE

Full-Stack Developer Intern | Tech Elevare Pvt. Ltd. | Aug 2025 – Nov 2025

- Collaborated with senior developers and cross-functional teams to design and develop internal web applications using **Python microservices** for **machine learning model** integration and API key management, and **Node.js/Express for REST backend** API development.
- Developed and maintained **REST APIs** with Node.js, implementing modular design, authentication, error handling, and request validation, while leveraging Python microservices to expose machine learning model endpoints and manage API keys securely.
- Integrated **Python-based machine learning models** (Scikit-learn) into backend microservices, connecting them with Node.js APIs and React.js frontends for real-time inference, analytics, and visualization.
- Contributed to multiple internal learning projects:
    - **RCS Messaging Web App:** Developed React.js UI components enhanced with Material UI for improved user experience, and integrated Node.js/Express APIs for messaging features and user authentication workflows.
    - **Radiology AI Application:** Assisted in integrating Python ML models for disease detection into Flask/Django microservices, exposed via Node.js APIs, and consumed by React frontends for data flow and result visualization.
    - **Vision AI:** Collaborated on integrating computer vision models using Python, exposed via Flask/Django and Node.js microservices, and built React interfaces with Material UI for real-time inference results.
- Utilized Git and GitHub for version control, branching, pull requests, code reviews, and collaborative development.
- Focused on clean, modular code, comprehensive logging, proper documentation, and systematic debugging to improve application reliability and maintainability.
- Actively participated in Agile standup meetings, sprint planning, and iterative development cycles with regular team feedback.

PROJECTS

Covert Database Detection | Python, Tkinter, Scikit-learn, Stegano, Cryptography

- Built a desktop-based tool to hide and detect covert databases using **cryptographic methods, steganography**, and intelligent data splitting techniques.
- Applied machine learning algorithms for pattern identification and accuracy improvement in detecting hidden data components.
- Implemented file signature analysis and optimized search algorithms to locate disguised files and validate anomaly patterns efficiently.

Any Search Tool for Easy File Access | Python, GUI Libraries

- Built a custom file search application that allows users to locate files and folders quickly using systematic directory traversal.
- Used os, threading, and tkinter modules to improve search efficiency and create a clean, responsive GUI.
- Focused on speed optimization and user experience through error handling and clear progress feedback.

Library Management System (Web App) | Django, DRF, MySQL, Bootstrap

- Developed a web-based system to manage books, users, and borrowing records with CRUD functionality.
- Used Django's ORM for database connections and templates for interface rendering.
- Added search, authentication, and admin panel management features for controlled access.

EDUCATION

B.Tech (Computer Engineering) | Government College of Engineering, Yavatmal | 2021–2025

HSC | Bhartiya Mahavidyalaya, Amravati | 2020–2021

SSC | Dnyanmata High School, Amravati | 2018–2019

CERTIFICATIONS

- **Google Cybersecurity Professional Certificate –** Comprehensive training in cybersecurity fundamentals, threat detection, and secure application development.
- **Cisco Networking Academy –** Data Analytics Essentials – Training in data analytics, visualization, SQL, Excel, and dashboard creation for data-driven decision making.
- **Google Cloud Computing Foundations –** Foundational skills in cloud computing concepts, infrastructure, and deployment practices.

ACHIEVEMENTS

- Published a Scopus-indexed research paper on "Covert Data Intelligence and Secure Information Hiding Techniques."
- Solved 100+ coding and algorithmic problems on platforms like LeetCode and HackerRank.
- Recognized in academic hackathons for innovative project development and effective teamwork.