Soham Manish Sawalakhe

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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, Java, 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

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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
- Cisco Networking Academy – Data Analytics Essentials

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.