

Samruddhi A. Pawar

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PROFILE SUMMARY

Graduate student pursuing a Master's in Computer Science with hands-on experience as a Full-Stack Developer Intern utilizing the MEAN stack. Proficient in Python, SQL, and JavaScript, with a strong foundation in data analysis, machine learning algorithms, and statistical modeling. Skilled in developing and deploying web applications, creating RESTful APIs, and implementing data-driven solutions. Experienced in using tools like Git and VS Code for version control and development. Eager to apply analytical and technical skills to contribute to innovative AI/ML projects.

EDUCATION

Fergusson College, Pune (SPPU) Bachelor in Computer Science CGPA: 8.9	Pune, India 2020-2023
MIT-WPU (World Peace University) Master in Computer Science Present	Pune, India 2023-2025

EXPERIENCE

Software Developer Intern
Boostmychild Pvt. Ltd. – Pune
Jan 2025 – Present

- Working as a full-stack developer using the MEAN stack (MongoDB, Express.js, Angular, Node.js).
- Developing and maintaining both frontend components and backend APIs for web applications.
- Implementing CRUD operations, form validations, and dynamic UI updates using Angular.
- Creating RESTful APIs and handling database operations with MongoDB and Express.js.
- Collaborating with team members using Git for version control

SKILLS AND TECHNOLOGY

Database Management Systems | Object Oriented Programming | Computer Networks and Security | Operating System | Data Analysis & Visualization

Programming Languages: Python, Java, HTML, CSS, R,

Frameworks & Stacks: MEAN Stack (MongoDB, Express.js, Angular, Node.js)

Database: MySQL, MongoDB

Developer Tools: Git, VS Code, Android Studio, Eclipse, Jupyter Notebooks, Excel

PROJECTS

XAI – Explainable AI for Malware Analysis:

- Developed a machine learning-based malware detection system to address the limitations of traditional signature-based methods by analyzing evolving malware behaviors.

- Utilized stratified sampling for data splitting and implemented Random Forest and Logistic Regression classifiers, with hyperparameter tuning to optimize model performance.
- Integrated SHAP and LIME to interpret both global and local model predictions, providing feature-level transparency and improving trust in automated decision-making.
- Achieved 100% accuracy with Random Forest and 97% with Logistic Regression; documented pipeline and results to support future improvements in ML-driven cybersecurity systems.

ClubEase (College Club Management System):

- Collaborated with a team of 4 to design and develop a scalable web-based club management system supporting 20+ college clubs, utilizing JSP for the frontend, Java Servlets for backend logic, and a relational SQL database for data storage.
- Developed key features including member registration, event scheduling, notice improving club coordination and reducing administrative time by 30%.
- Deployed the application on an Apache Tomcat server and conducted extensive functional and performance testing, identifying and resolving bugs to deliver a reliable and efficient platform.

Trav-U-ler (Tours and Travel Management System):

- Led a team of 3 to design and develop a responsive tour booking website covering 25+ Pune destinations, using HTML, CSS, and JavaScript for the frontend, and PHP with PostgreSQL for backend database management.
- Implemented core features such as vehicle availability display, streamlined booking process, and secure payment gateway simulation to demonstrate key functionalities.
- Coordinated collaborative development using version control tools, performed rigorous functional testing, and incorporated user feedback to refine interface design and improve overall usability.

CERTIFICATIONS AND COURSES

Python and Flask Complete Course: Udemy

Cisco Certified Courses:

- Introduction to Cyber Security
- Cyber Security Essentials • Introduction to Packet Tracer