

Devansh Sati

AI Engineer — Edge AI Security — LLM Systems — Full Stack Engineering

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PROFESSIONAL SUMMARY

Engineer transitioning into AI and LLM-focused systems with hands-on experience in Edge AI security, YOLOv8 adversarial defense research, and scalable full-stack deployment.

EXPERIENCE

Inventory Management System (IMS) — School Automation Platform Sept 2025 – Present
Full Stack / AI Engineer Self Managed Deployment

- Developing inventory management platform automating institutional records and document workflows.
- Implemented JWT authentication using Next.js with Node.js backend and MongoDB database.
- Designed secure document vault supporting PDF storage and administrative record management.
- Configured and hosted local production server independently including deployment and maintenance.

Esip Company Sept 2024 – Sept 2025
Web Developer Delhi, India

- Developed responsive React.js applications improving performance by approx. 20%.
- Built reusable UI components reducing development effort by nearly 15%.
- Integrated REST APIs enabling scalable frontend-backend communication.
- Improved UX through iterative testing and optimized component architecture.
- Maintained structured Git workflows including branching and code reviews.

Honda Motorcycles India Ltd Jun 2023 – Aug 2024
Cybersecurity & DevOps Intern Gurugram

- Worked on OWASP practices, VAPT automation, and secure DevOps pipelines.
- Automated CI/CD processes reducing manual deployment effort by 25%.
- Assisted in threat modeling and enterprise security workflows.

Maruti Suzuki India Ltd Jul 2023 – Aug 2023
ITDCOP Intern Gurugram

- Participated in Breach Attack Simulation (BAS) improving infrastructure defense evaluation.
- Supported network monitoring and server management operations.

PROJECTS & RESEARCH

LightDefend — Bachelor's Thesis (Edge AI Adversarial Defense) PyTorch, YOLOv8

- Designed hybrid adversarial defense combining Gradient Masking and Runtime Feature Sanitization.
- Simulated FGSM attacks and evaluated robustness on COCO 2017 dataset across 30 batches.
- Improved adversarial confidence recovery from 0.62 to 0.84 with minimal latency overhead.
- Focused on lightweight security suitable for real-time edge AI deployments.

Raj Bhawan Inventory Management System Flutter, Firebase

- Developed enterprise inventory platform managing 10,000+ assets with QR-based tracking.
- Implemented multi-user cloud architecture with secure real-time updates.
- Collaborated with government stakeholders to deliver scalable digital solutions.

DevOps VAPT Automation CI/CD, Security Testing

- Implemented vulnerability testing scripts integrated into CI/CD pipelines for automated security checks.

- Managed network configurations and testing environments ensuring secure deployment workflows.
- Improved project-level security validation through automated scanning and reporting.

Library Management System

HTML, CSS, JavaScript

- Developed web-based library platform improving resource accessibility for staff and students.
- Designed intuitive frontend workflows enabling efficient search and management of book records.
- Implemented structured backend integration ensuring secure data storage and updates.

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, HTML, CSS, SQL, Dart
AI & Technologies: LLM Systems, Edge AI, YOLOv8, PyTorch, Adversarial ML
Frontend: React.js, Next.js, Responsive Design
Backend: Node.js, MongoDB, Firebase, REST APIs
DevOps & Security: Docker, Git, CI/CD, OWASP, JWT Authentication
Operating Systems: Windows, Linux

EDUCATION

BTKIT, Uttarakhand Technical University	Sept 2025
B.Tech Computer Science Engineering — First Division	Almora, Uttarakhand
Bal Bharati Public School	2021
Class 12 — 87.2%	Manesar, Haryana
The Mann School	2019
Class 10 — 74.4%	Delhi

HONORS & RECOGNITION

- Certificate of Appreciation awarded by Lt. Gen. Gurmit Singh, Governor of Uttarakhand (2023) for leadership and technical contribution.