

# VAIDIKA KAUL

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## SUMMARY

Full-stack developer building production-grade web applications and AI-enabled systems with strong frontend engineering, scalable backend APIs, and deployment workflows. Experienced across product, data, and ML layers.

## PROJECT EXPERIENCE

### Noctura - Production-Grade Full-Stack Productivity Platform - [Live](#) | [GitHub](#)

[ Tech Stack: *React, Node.js, Express, MongoDB, JWT, Render* ]

- Architected and shipped a production-grade full-stack application with 5+ integrated productivity modules, enabling end-to-end task, habit, Kanban, calendar, and night-routine workflows with persistent user state.
- Designed and implemented JWT-secured RESTful APIs (100+ endpoints) with role-scoped data access, optimized CRUD operations, and structured MongoDB schemas to ensure data consistency and secure session handling.
- Built a responsive, state-driven frontend supporting 100% mobile and desktop compatibility, reducing interaction friction and improving task completion flow through clean UI, modular components, and smooth UX transitions.

### AORUS Gigabyte - UI/UX Redesign & Frontend Engineering Case Study - [Live](#) | [GitHub](#)

[ Tech Stack: *HTML, CSS, JavaScript, Figma, UI Design Tools* ]

- Led an end-to-end UI/UX redesign by creating Figma wireframes and high-fidelity prototypes, then translating them into responsive, pixel-accurate frontend components aligned with modern web and accessibility standards.
- Re-architected layout, typography, and visual hierarchy to improve navigation flow, content readability, and feature discoverability, while preserving the brand's premium, performance-driven visual identity across key pages.

### Anomate Stream - ML-Driven Anomaly Detection for Containerized Systems - [GitHub](#)

[ Tech Stack: *Python, Isolation Forest, Falco, scikit-learn, Pandas, Streamlit* ]

- Designed a 5-stage modular anomaly detection pipeline for container runtime security using Falco-mimic system call logs, spanning data ingestion, preprocessing, ML inference, visualization, and deployment in a unified workflow.
- Trained an unsupervised Isolation Forest model (100 trees, 10% contamination) on encoded syscall, CPU, and memory features, achieving 94.6% accuracy, 91.2% precision, and 90.3% F1-score, and integrated results into a Streamlit dashboard for log uploads, anomaly labeling, and exportable analysis.

## EXPERIENCE

- **Research Intern (Medicaps University)** | ML classifiers for steganography detection in satellite imagery.
- **AI/ML Research Intern (Edunet Foundation)** | CNN-based forest fire detection with PSNR metrics and heatmaps.

## EDUCATION

- **Medi-Caps University, Indore** | B.Tech. Computer Science and Engineering | 2022-2026 | CGPA: 8.0 / 10
- **SICA S.S. School, Indore** | Higher secondary, CBSE Board | 2022 | Academic Performance: 87.6%

## SKILLS

**Frontend:** Next.js, React.js, Tailwind, JavaScript, HTML, CSS, UI Component Libraries, Responsive UI Design

**Backend:** Node.js, Express.js, REST APIs, JWT-based Authentication, Firebase

**Databases & Tools:** MongoDB, PostgreSQL, Redis, Git/GitHub, Postman, Docker, GitHub Actions

## ACHIEVEMENTS

- **Hack'Ndore (National Hackathon)** | Top 100 teams nationwide for building and presenting a functional prototype.
- **Re-Imagine (National Frontend Hackathon)** | Top 800 teams nationwide for UI implementation.