

Mohit Mohatkar

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EDUCATION

Shri Ramdeobaba College of Engineering and Management (RCOEM) <i>Bachelor of Technology in Computer Science and Engineering (AIML)</i>	Nagpur, India 2023 – 2027
Shreeram Vidyalaya, Sonegaon <i>Class 12th</i>	Nagpur, India 2023
Carmel Academy, Kalmeshwar <i>Class 10th</i>	Nagpur, India 2021

WORK EXPERIENCE

AI Security Analyst <i>Quinine Cybersecurity</i>	April 2026 – Present London, UK (Remote)
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- Conducting in-depth research on **API endpoint security testing** — identifying vulnerabilities and attack vectors across REST and GraphQL interfaces — and actively **developing an automated tool** that performs endpoint fuzzing, injection detection, and misconfiguration scanning.
- Researching **Shadow AI** (unauthorized AI deployments within enterprise environments) and building a **detection model** that fingerprints shadow AI usage patterns, assessing compliance violations and data leakage risks.
- Engineering end-to-end security pipelines that combine research findings with production-ready models, integrating threat classification outputs into structured security reports for stakeholder review.
- Collaborating with the security team to validate model accuracy, propose mitigation strategies, and align deliverables with industry frameworks including OWASP and NIST.

PROJECTS

Smart HR Portal <i>Next.js, Tailwind CSS, Clerk, MongoDB, Node.js, Recharts</i>	Live GitHub
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- Built a full-stack **AI-powered HR Management System** using Next.js 16 (App Router) and Tailwind CSS v4, featuring a dark-mode glassmorphism UI with responsive design and an interactive sidebar.
- Integrated **predictive analytics** for holiday forecasting and employee risk analysis — identifying flight risks and burnout patterns through attendance anomaly detection and leave frequency modeling.
- Implemented **Clerk** for isolated, role-based authentication (Employee and Admin portals) with middleware route guards preventing unauthorized access to admin endpoints.
- Developed comprehensive HR modules including attendance tracking, leave management (with team calendar), and a secure document hub — all with full **timezone-aware** date/time synchronization using **date-fns-tz**.
- Deployed on **Vercel** with MongoDB Atlas as the cloud database, achieving seamless CI/CD via GitHub Actions.

Resume-AI — Smart Resume Analyser <i>React, Python, Flask, scikit-learn, NLP</i>	Live GitHub
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- Developed an **NLP-powered full-stack web application** that analyses uploaded resumes (PDF/DOCX) and generates an 8-factor **ATS compatibility score** (0–100) based on formatting, keyword density, skills, and structure.
- Built an ML job-role prediction model trained on a **Kaggle resume dataset** (25 job categories) using scikit-learn, achieving accurate role classification from raw resume text.
- Implemented a taxonomy-based **skill extraction engine** that maps detected skills across 9 tech domains, visualized via a Recharts radar chart on the React frontend.
- Designed a Python Flask REST API with endpoints for resume parsing (PyMuPDF, python-docx), ATS scoring, and AI-generated professional summaries; frontend built with **React + Vite**, deployed on Netlify.

TECHNICAL SKILLS

Frameworks & Libraries: Next.js, React, Tailwind CSS, Flask, scikit-learn, Recharts
Languages: Python, JavaScript, Java, C, HTML, CSS
Backend: Node.js, Express.js, REST APIs
Databases & Cloud: MongoDB, MySQL, SAP HANA, MongoDB Atlas, Vercel, Netlify
Developer Tools: Git, GitHub, VS Code, Figma, Streamlit