OSHIM PATHAN

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PROFESSIONAL SUMMARY

Final-year Computer Science Engineering student (GPA 8.76/10) with hands-on experience in Full Stack Development (MERN), Machine Learning, and Generative AI. Certified in Python and AWS Cloud Foundations. Architected and delivered scalable SaaS platforms and AI-driven healthcare solutions. Seeking to leverage expertise in software engineering, data analytics, and cloud technologies to drive innovation.

EDUCATION

Vellore Institute of Technology   Vellore, Tamil Nadu
B. Tech in Computer Science and Engineering; GPA: 8.76/10   Sep 2022 – Jul 2026
Relevant Coursework: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), DBMS, Operating Systems, Artificial Intelligence, Compiler Design

Trinity International SS/College   Kathmandu, Nepal
Higher Secondary in Computer Science; GPA: 3.45/4.0   Jul 2020 – Jul 2022

TECHNICAL SKILLS

Programming Languages: Python (Certified), Java, C/C++, JavaScript, TypeScript, R, MATLAB
Web Development: HTML5, CSS3, React.js, Next.js, Tailwind CSS, Node.js, Express.js
Databases & Backend: MongoDB, Supabase, PostgreSQL, REST APIs, Advanced SQL
Cloud & DevOps: AWS (EC2, S3, IAM), Git, GitHub Actions, Docker
AI/ML & Data Science: IBM Watson, Google Gemini API, Scikit-learn, Pandas, NumPy, Generative AI
Languages: English (Fluent), Hindi (Fluent), Nepali (Native), German (Beginner)

WORK EXPERIENCE

CodSoft   Kolkata, West Bengal
Machine Learning Intern   Sep 2024 – Oct 2024
- Developed a movie genre prediction model with 87% accuracy using TF-IDF & word embeddings; enhanced classifiers (Naive Bayes, Logistic Regression, SVM) reducing misclassification error by 13%.
- Constructed a fraud detection model for credit card transactions, achieving 92% accuracy with Logistic Regression, Decision Trees & Random Forests; reduced false positives by 18%.

PROJECTS

URL_Short SaaS   Jul 2025 – Sep 2025
Tech Stack: React.js, Node.js, Express.js, MongoDB, Docker, AWS   Demo Link
- Architected SaaS platform handling 10,000+ redirects/day, scaled for 1,000+ users with microservices architecture.
- Implemented 7-language OAuth support and fortified security with JWT and API rate limiting.

AeroStream Health Analysis   Feb 2025 – Aug 2025
Tech Stack: FastAPI, Scikit-learn, Pandas, Next.js, TypeScript   Demo Link
- Built an AI-powered healthcare platform delivering real-time disease predictions (Diabetes, Kidney Disease) with high accuracy.
- Developed cross-platform PWA interfaces enhancing patient accessibility and care workflows.

GIPHY Search Engine   Oct 2023 – Jan 2024
Tech Stack: React.js, Vite, Tailwind CSS, Giphy API   Demo Link
- Engineered a high-speed search solution managing 100+ live queries/sec; improved average page load time by 22%.

PATENTS

B-SAFE.AI: Secured Breathe Sensor Array Framework   Patent Pending (Filed)
Application ID: IPR0000684P   Sep 2025
- Invented a novel non-invasive disease diagnosis framework utilizing Generative AI and secure sensor arrays.
- Improved diagnostic efficiency and user privacy via secure data pipelines.

CERTIFICATIONS & LEADERSHIP

- IBM Skills Network: Generative AI Industrial Intern (Certificate)   May 2025
- AWS Academy: Cloud Foundations Certified (Certificate)
- HackerRank: Python & SQL (Advanced) Certified (Certificate)
- IEEE (EDS) Club: Led 15-member team, organized 3+ workshops/semester, boosted engagement by 60%.