

# DAKSH VERMA

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## PROFESSIONAL SUMMARY

AI and software development enthusiast with experience in building scalable **full stack** and **machine learning** systems. Skilled in **Python**, **Node.js**, and **cybersecurity** practices with proven impact through high accuracy models and secure system design. Known for strong **ownership**, **analytical thinking**, and the ability to deliver reliable and scalable solutions across fast-paced, high-stakes environments.

## SKILLS

- **Technical Skills:** Node.js, Express.js, MySQL, MongoDB, REST API Design, Authentication & Authorization, Network Security, Vulnerability Assessment, Data Encryption, Penetration Testing, OWASP Top 10
- **Tools & Technologies:** Git & GitHub, Postman, Wireshark, Burp Suite, Nmap, Visual Studio Code, Linux Terminal, Kali Linux, Docker, TensorFlow, Scikit-learn, Pandas, Numpy
- **Programming Languages:** Python, JavaScript, SQL
- **Core Concepts:** Data Structures and Algorithms, OOP, DBMS, Operating Systems, System Design(Basic)
- **Soft Skills:** Problem Solving, Leadership, Attention to Detail, Team Collaboration, Technical Documentation, Adaptability

## WORK EXPERIENCE

### Cybersecurity Intern, Tech Eagles, India

Sep 2025 - Feb 2026

- Secured **10+ client and internal websites** by conducting vulnerability assessments and hardening web configurations, resulting in a **40%** reduction in identified security misconfigurations.
- Implemented an **Identity and Access Management (IAM)** structure enforcing least-privilege principles, reducing unauthorized access risks by **30%** across the organization.
- Established **log monitoring frameworks** enabling real-time threat detection, improving incident response time by **25%** and enhancing visibility across critical infrastructure.
- Developed and delivered a cloud security training curriculum for **15+ employees**, reducing human-error driven vulnerabilities by **25%** and improving overall security compliance.

### Data Security Intern, Bharti Airtel

Feb 2025 - May 2025

- Secured sensitive KPI data across multi-channel marketing platforms by implementing **role-based access controls and encryption protocols**.
- Automated data masking for **PII**, enhancing **compliance with GDPR** and Indian data protection standards.
- **Reduced data leakage risk by 25%** through vulnerability assessment and secure API integration audits.
- Supported **ISO 27001 audit readiness** by documenting **data security workflows and controls**.

## PROJECTS

### AI-Based Conversational BI Dashboard (NLP + SQL Generation + FastAPI)

Mar 2026

Built an end-to-end **AI-powered system** that converts natural language queries into **SQL** and generates interactive dashboards in real time using **Python**, **FastAPI**, and **Google Gemini API**. Designed a scalable backend with schema-aware query generation, API integration, and chart recommendation, enabling users to chat with data for analytics. Achieved **95% query accuracy** with hallucination control, supporting dynamic CSV ingestion, real-time processing, and secure data handling.

### AI Deepfake and Fake News Detection System (NLP + ML + OpenCV)

Dec 2025

Developed an AI system using **CNN (ResNet/Xception)** and **NLP** to detect deepfake videos and fake news. Trained on datasets like **FaceForensics++** and **DFDC**, achieving **85% accuracy** and **0.89 AUC** with strong **F1-score**. Built a scalable **web-based platform** with asynchronous processing, enabling real-time predictions.

### AI-powered Civic Issue Reporting Platform

Sep 2025

Developed an **AI powered** civic issue reporting platform using **EfficientNet** based **image classification** to detect problems like potholes, garbage, and water leaks from user uploaded images. Built a scalable full stack system with **Node.js**, **MongoDB**, and cloud integration, implementing **automated routing** and duplicacy detection to improve efficiency. Achieved **96% model accuracy** and enabled **real time tracking** and **analytics** for data driven **smart governance**.

## EDUCATION

INT. BTech CSE - MTech AI (CGPA: 8.03)

Gautam Buddha University, Uttar Pradesh

Aug 2022 - Present

Diploma In Cyber Security

Craw Security, Delhi

Feb 2025 - Present

Senior Secondary - Non Medical

DL DAV Model School, Pitampura, Delhi

Apr 2021 - Mar 2022

## CERTIFICATION

Protect Sensitive Data with Data Loss Prevention Skill Badge, Google Cloud

Apr 2025

AWS Certified Solutions Architect, Forage

Apr 2025

Crash Course On Python, Google

Aug 2023

## LEADERSHIP

**Organizer, iCRI-25 International Conference- Led** end-to-end coordination of a **global conference**: managed sessions, cross-functional teams, and audience engagement, enhancing event visibility and impact.