Aakarshan Verma

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EDUCATION

Bachelor of Engineering in Computer Science and Engineering | 2022-2026
Model Institute of Engineering and Technology, Jammu , J&K

- CGPA: 7.0 (Present)

CERTIFICATION

Google Certifications in Cyber Security :
- Foundations of Cyber Security
- Assets , Threats, and Vulnerabilities
- Automate Cybersecurity Tasks with Python

DevOps and AI on AWS Specialization
- Foundations of DevOps, AI & AWS Cloud
- Infrastructure as Code & Automation
- CI/CD and Monitoring on AWS
- Data Engineering & Model Training
- Responsible & Generative AI

PROJECTS AND ACCOMPLISHMENTS

- **Google Solution Challenge Internal Hackathon Winner 2025 – [Sahayatri] :** Developed a smart indoor navigation and crowd control system for railway stations, offering real-time route guidance and congestion alerts. The platform seamlessly integrated with local transport systems for smooth transitions and provided emergency alerts with station mapping. Tech: React, Python, OpenCV, Google Maps API.

- **Grand Finalist at IEEE YESIST 12 (2024, Tunisia) – [Vridh Hub] :** Created a platform to support the elderly in managing healthcare, transport, and daily needs, promoting independence and accessibility. The system featured integrated health tracking and transport support with a user-friendly interface for easy service access. Tech: React, Firebase, Node.js, MongoDB.

- **Grand Finalist – IEEE YESIST 12 (2025, Malaysia – 5th Rank among 36 teams of 7 different countries – also under patent process) [Aasra Sewa] :**
  Built a disaster relief system enabling real-time aid tracking, optimized resource allocation, and emergency check-ins via smart bands for vulnerable communities.
  Tech: Python · MongoDb · SQL · Google Maps API · IoT (Smart Band Integration)

- **Smart India Hackathon 2025 – [NamoArogya]**: Proposed a unified digital bridge between AYUSH and modern healthcare by integrating ICD-11 codes with EMR/EHR systems. The platform enabled standardized patient records, seamless data exchange, and plug-and-play APIs for hospitals, ensuring interoperability, privacy, and scalability. Designed to empower practitioners, improve patient outcomes, and foster trust in holistic care.
  Tech: APIs, Microservices, FHIR Standards, Secure Data Exchange.

SKILLS

- **Languages**
  C · C++ · Python

- **DevOps & Cloud Tools**
  Docker · Kubernetes · Git · GitHub · VS Code · CI/CD pipelining

- **Operating Systems & Environments**
  Linux