

AKSHAT TRIVEDI

Full Stack and Software Developer

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EDUCATION

- **Bachelor of Technology (B. Tech) in Information Technology**
Pranveer Singh Institute of Technology, Kanpur, India
CGPA: 8.1 (Till 5th Semester) | Expected Graduation: 2026
- **Class 12th – CBSE**
Vishnu Bhagwan Public School, Prayagraj, India – Percentage: 73.6% | Year: 2022
- **Class 10th – CBSE**
Vishnu Bhagwan Public School, Prayagraj, India – Percentage: 86.6% | Year: 2020

SKILLS

- **Languages:** Python, Java, C++, JavaScript, Go, Bash, SQL
- **Web & Backend:** Flask, Node.js, Express.js, Django
- **Cloud & DevOps:** AWS (EC2, Lambda, S3), Docker, GitHub Actions
- **Databases:** MongoDB, PostgreSQL, MySQL
- **AI/ML & Data:** TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, NLP, CNN
- **Tools & OS:** Linux, Git, VS Code, PyCharm, Android Studio
- **Concepts:** Data Structures, System Design, TCP/IP, REST APIs, OOP, SDLC

TECHNICAL PROJECTS

- ❖ **SmartRetail360 – AI-Powered Supply Chain Platform** Jun 2025 – Sept 2025
 - Built end-to-end **Node.js/TypeScript microservices** (inventory, forecasting, delivery modes) with **WebSocket APIs** and **PostgreSQL back-end**.
 - Integrated **ARIMA/LSTM/ensemble ML models** in Python service (**97.2% accuracy**) for demand forecasting and anomaly detection.
 - Implemented **Dijkstra's algorithm** with **Google Maps API** to optimize delivery routes, reducing cost by 30% and **SLA breaches by 25%**.
 - Developed a **React (Vite + TS) real-time dashboard** with live data, IoT sensor feeds, and sustainability metrics.
 - Ensured production-readiness with **Dockerized CI/CD pipelines**, **Drizzle ORM**, **environment configs**, and role-based access control.
- ❖ **Hybrid Deepfake Detection System** Mar 2024 – June 2024
 - Engineered a dual-path PyTorch model combining frame and **ASCII-conversion branches** with **BiLSTM fusion**, achieving **~96.3% accuracy**.
 - Introduced a novel ASCII conversion layer, **reducing compute usage by 65%** while maintaining detection performance.
 - Exposed inference via **FastAPI REST service**, containerized with Docker, **delivering <0.42 s/frame processing**.
 - Built interactive **React/TypeScript UI** featuring **drag-and-drop uploads**, frame-level results, and real-time system metrics.
 - Followed best practices: **modular architecture**, **unit testing**, **CI/CD deployment**, and support for Docker/Kubernetes environments.

EXPERIENCE

- **The Vibe Coder – Software Developer Intern / Remote, Mar 2025 – Present**
 - Developed **Java/Python backend microservices** (FastAPI & PostgreSQL) delivering REST with 35% latency reduction.
 - Applied **OOP & SOLID design patterns**, **SQL schema design**, **transaction handling**, and automated Docker-based CI/CD pipelines.
 - Collaborated in Agile sprints using Git, code reviews, and cross-functional coordination to ship features on schedule.
- **IEEE PSIT Chair & Research Associate / Kanpur, Jul 2023 – Present**
 - Led backend implementation of a deepfake detection **API (Python, PyTorch, REST)**, reducing inference **latency by 40%**.
 - Employed **modular OOP design**, unit testing, and CI workflows to ensure software quality and maintainability.
 - Conducted **10+ technical workshops**, mentoring 20+ students in OOP, SQL, version control, and DevOps practices.

CERTIFICATIONS

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|--------------------------------------|---|
| • Salesforce AI Trailblazer Champion | Salesforce Trailhead (April 2025 – May 2025) |
| • Machine Learning Course | Rinex Technologies (Jun 2024 – Sept 2024) |
| • AWS Certified Cloud Practitioner | Amazon Web Services (Dec 2024 – Jan 2025) |
| • Certified Java Developer – Expert | CJDE™ (Feb 2025 – Mar 2025) |

LEADERSHIP & ADDITIONAL HIGHLIGHTS

- Facilitated 10+ technical workshops on full-stack development, Git, and cloud deployment.
- Active contributor on GitHub (Hugging Face, TensorFlow), maintaining ML/data utility repositories.
- IEEE Chair: Organized 10+ AI/ML/IoT workshops; led full-stack teams and promoted open-source contributions.
- Focused on solving real-world problems with accessible, ethical, and user-centric technology.
- Solved 300+ Problems on Leetcode and Hackerrank