

# Shaurya Jain

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## Profile

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Dedicated computer science student with a strong foundation in systems programming, algorithms, and software engineering. Experienced with real-time control systems, edge computing, and natural language processing. Certified in Business Analytics, Digital Marketing, and SEO—offering a strategic tech-business blend. Strong communicator shaped by national radio engagements and extensive travel. Fast learner, team player, and tech innovator passionate about growth and real-world problem-solving

## Education

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<b>Jain University</b> , B.Tech in Computer Science and Engineering	2022 – 2026
GPA: 8.3	
<b>Army Public School</b> , Pre-University	2020 – 2022

## Projects & Experience

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### Swarm Operations in Drones

- Developed leader-follower drone behaviors for autonomous and synchronized multi-drone movement.
- Designed and integrated a React-based live swarm dashboard connected to the Flask back-end for real-time control.
- Ensured a robust, low-latency communication pipeline between ground control and swarm units via MAVSDK.
- Implemented safety protocols and fallback mechanisms for swarm operation consistency.

### Predictive Analytics for Natural Hazards using Edge Computing

- Researched a machine learning pipeline for real-time hazard prediction (floods, earthquakes) in metropolices.
- Implementing edge devices for on-site processing, reducing cloud dependency and response time.
- Applied time-series forecasting and anomaly detection models on environmental datasets for risk assessment.
- Visualized dashboards showing risk levels, historical patterns, and predictive alerts.

### Real-Time Regional Language Translation Tool (NLP)

- Engineering an NLP tool supporting 5+ Indian languages with automatic language detection and translation.
- Leveraging T5 transformer models fine-tuned on regional datasets for accurate and fast translation.
- Integrating APIs to enable seamless multilingual communication in text-based applications.
- Conducted data cleaning, augmentation, and performance evaluation to optimize model accuracy.

## Technical Skills & Certifications

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**Languages:** Python, C, C++, Java, C#, SQL, HTML, Node.js

**Technologies:** React, Flask, Edge Computing, ML, NLP, MAVSDK, PX4

**Certifications:** Python, OOP, HTML (Coursera); Business Analytics, Digital Marketing, SEO

## Other Skills & Engagements

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**Soft Skills:** English (Fluent), Hindi (Fluent), French (Basic)

**Extra-curricular:** Volunteer, Youth for Seva — Engaged in educational and environmental welfare initiatives.