

# Harshit Chaudhary

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## Experience

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### Automation Intern

Jan 2026 - Present

UBS

Mumbai, India

- Constructed a Python-based automation pipeline aggregating 10+ Excel sources into 8-sheet structured reports, reducing manual effort by 30+ hours
- Formulated modular OOP workflows using Pandas, NumPy, and Openpyxl for data ingestion, validation, and transformation with robust error handling; introduced real-time logging for non-technical usability.
- Launched a Streamlit frontend to simplify interaction and prototyped an AI-driven chatbot for automated output analysis; assembled Power BI dashboards for visualization.

### Software Development Intern | [Link](#)

Jun 2025 - Jul 2025

NIIT Managed Training Services

Gurugram, India

- Created a full-stack user management system with React, Node/Express, PostgreSQL, and JWT-based authentication.
- Deployed the application on Vercel with a cloud backend, refining database queries to achieve sub-800ms response times.
- Contributed 50% of backend logic and 40% of UI features within Agile sprints alongside a 5-member team.

## Projects

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### Smart Stick for the Visually Impaired | [Link](#) | *Arduino, ML, Computer Vision*

Dec 2024 – Apr 2025

- Engineered an Arduino-based assistive device integrating ultrasonic sensors, GPS navigation, and camera-based object detection with haptic feedback.
- Devised ML-driven path optimization using Google Maps APIs to avoid crime, accident, and traffic hotspots, with SOS alerts triggered on anomalies or unfamiliar faces.

### AI-Based Frame Interpolation for WMS Services | [Link](#) | *Python, ConvLSTM*

Sep 2024 – Dec 2024

- Designed an end-to-end ML pipeline for frame interpolation to generate smooth satellite imagery videos for WMS platforms, enhancing temporal resolution of cloud movement visualizations.
- Integrated environmental parameters (wind, pressure, temperature) into a ConvLSTM model with a custom loss function to improve prediction of deformable patterns like cyclones.

### TrackKar – Dynamic Route Rationalization | [Link](#) | *Python, ML, Flask, Folium, JS*

Sep 2024 – Oct 2024

- Enhanced 50+ public routes using ML on GPS data, improving arrival-time accuracy by 18%.
- Processed 200+ GPS records/min and deployed real-time dashboards using Folium and Google Maps APIs, enabling adaptive scheduling via REST APIs.

### Saavdhaan – Crime Hotspot Detection | [Link](#) | *Python, REST APIs, GeoPandas*

Nov 2023 – Dec 2023

- Analyzed 15K+ crime records using clustering models (DBSCAN/KMeans) to identify hotspots with 80% accuracy.
- Deployed geofencing alerts (500m radius) and safer route recommendation algorithms for end-users.
- Streamlined ETL pipelines and indexing, reducing query times by 40%.

### Disaster Management Platform | [Link](#) | *React, Flutter, Python*

Sep 2023 – Nov 2023

- Built a cross-platform emergency response system tested by 200+ users in campus drills, integrating offline guides, 10+ helpline APIs, and multilingual chatbot alerts.
- Orchestrated resource mapping and notification workflows, reducing emergency response delays by 30%.

## Education

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### Vellore Institute of Technology, Chennai Campus

Sep 2022 - Jul 2026

*B.Tech in Computer Science (Specialization: AI and Robotics)*

CGPA: 8.81

### Lovely Public Sr. Sec. School, New Delhi

Apr 2019 - May 2021

*Senior Secondary (CBSE), Class XII*

CGPA: 9.46

## Skills

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**Languages:** Python, R, Java, C/C++, HTML, CSS, JavaScript, SQL, Dart

**Frameworks/Libraries:** React, Node.js, Express, Flask, Flutter, Pandas, Scikit-learn, TensorFlow, PyTorch, Folium

**Databases/Cloud:** PostgreSQL, MongoDB, Firebase, AWS, GCP, OCI, Vercel, Google Colab

**Tools & Platforms:** Git, Linux (Ubuntu), Bash, JWT, REST APIs, Docker, Kubernetes, Postman, Figma, Test Automation Basics, CI/CD (GitHub Actions / GitLab CI)

**Core Competencies:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), System Design Basics, Networking (TCP/IP, HTTP, Sockets), Machine Learning Pipelines, Statistical Analysis

## Leadership Experience

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**President, Dramatics Club**

May 2024 - May 2025

*Vellore Institute of Technology, Chennai*

*Chennai, India*

- Led 50+ members across 10+ large-scale performances, attracting 1K+ attendees and fostering collaboration.
- Streamlined logistics and budgeting workflows, reducing prep cycles by 50% and boosting workshop participation.
- Directed and scripted plays winning national accolades across IIT Madras, IIT Bombay, and VIT campuses.

## Achievements and Awards

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- Secured **Top 5 National Team** at **Hackout 2023**, IIT Madras (1K+ participants).
- Selected for **Smart India Hackathon 2023 & 2024** (top 1% campus-wide).
- Solved **400+ LeetCode problems**, achieving a 70% acceptance rate and strengthening DSA fundamentals.
- **First Prize**, Nukkad Natak at **Riviera 2025** (VIT Vellore); **Third Prize** in 2023 & 2024.
- **Finalist** at **Aagaaz 2024** (IIT Bombay) nationwide street play contest.
- **Best Writer & Director** at **Sarang 2025** (IIT Madras) and **Drama League 2024** (VIT Chennai).