

SHREY SINGH

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EDUCATION

Manipal University Jaipur

Bachelor of Technology in Computer Science and Engineering

Jaipur, Rajasthan

Jan. 2025 – Jan. 2029

AWARDS & ACHIEVEMENTS

Winner | NSUT Innovate '26

2026

- Won the innovation competition hosted by Netaji Subhas University of Technology.

Winner | India Innovates 2026 – Municipal Corporation of Delhi

2026

- Selected among the Top finalists nationally out of 1.26 crore+ applicants in the world's largest civic tech hackathon, organized by HN & MCD, held at Bharat Mandapam, New Delhi.
- Presented innovation in the presence of the Chief Minister of Delhi, CEO of Unstop, and senior government officials.

Finalist | IDEA2IPR 2025

2025

- Selected as a finalist in the national-level idea-to-intellectual property rights competition.

PROJECTS

The Dead Zone | Python, FastAPI, Next.js, PostGIS, Uber H3, MapLibre GL

2026

- Built a full-stack GIS platform (Smart India Hackathon) for hazard red-zone identification, utility carrying-capacity assessment, and relocation planning in disaster-prone districts.
- Engineered the flood-susceptibility pipeline (Sentinel-1 SAR inundation, JRC water filtering) onto Uber H3 cells in PostGIS; added WorldPop and Humanitarian OpenStreetMap ingestion pipelines.
- Built per-cell attribution and provenance APIs, a relocation site-screening workflow, and the frontend (3D hexagonal risk maps, statistics dashboard, dark mode, GSAP).

NyayaAI | Python, Multi-Agent AI, TypeScript, React, Next.js, LangGraph, GSAP, Three.js

2026

- Built a multi-agent AI legal platform giving Indian citizens instant, verified legal guidance; developed core UI with GSAP animations, dark/light mode, and a Three.js 3D landing page.
- Architected the LangGraph and Groq/Llama-3 Intake Agent, extracting structured case metadata via Pydantic and using a completeness score to trigger targeted follow-up questions.
- Integrated Sarvam AI (Akshar) OCR to process legal evidence from documents and images in multiple Indian languages.

JanSamadhan | Python, OpenCV, TypeScript, React, Next.js, GSAP

2026

- Developed a production-grade civic grievance platform with citizen, worker, authority, and admin portals and SLA-aware ticket tracking.
- Integrated Sarvam speech-to-text and a multilingual chatbot; built interactive maps, reporting forms, a rewards leaderboard, and dark-mode theming.

Batman-Vision | Python, YOLOE, FastAPI, SQLite, Next.js

2026

- Built a real-time webcam object-memory system using YOLOE with custom ByteTrack tracking and sharpness/confidence-scored crop selection.
- Added embedding-based de-duplication and a multi-model vision-language tagging fallback chain with SQLite FTS5 search, served via FastAPI and a Next.js dashboard.

YouTube Playlist Search | JavaScript, WebExtensions (MV3), GitHub Actions

2026

- Built and published an open-source Chrome/Firefox extension (live on Firefox Add-ons) adding real-time search and navigation to YouTube playlists, with auto-loading of full playlists and CI-based releases.

Snapchat Automation Bot | Python, Android UI Automator

2022

- Built a Python script that sends Snapchat photos with random filters to recipients via Android UI Automator, demonstrating Android automation and UI interaction scripting.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C++, SQL, Kotlin, HTML, CSS

Frameworks/Libraries: React, Next.js, FastAPI, Tailwind CSS, GSAP, Three.js, Pydantic, LangGraph, MapLibre GL

Data & Geospatial: PostgreSQL/PostGIS, SQLite (FTS5), Supabase, Uber H3

AI/ML: Multi-Agent AI, LLM Integration (Groq, OpenRouter, Sarvam), Computer Vision (YOLO, OpenCV), OCR

Tools & Cloud: Git, GitHub Actions, Docker, Android Automation

Interests: Local LLMs, Robotics/IoT, Android Development, Video Editing