

Rashika Kaushal Jain

Data Analyst | AI-Assisted Product Engineer

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Summary

Second-year computer science student specializing in data science. Built and launched a live production website for a commercial business during a web dev internship, and competed in SIH 2025, ISRO BAH 2026, and Google Cloud Rapid Agent Hackathon 2026. Managed the end-to-end workflow to build and deploy 5+ projects using Python and front-end tools. Seeking Junior Data Analyst and Research internship opportunities where I can contribute to real-world, data-driven projects while expanding my technical and research skills.

Skills

Languages & Formats: Python, SQL, JavaScript, HTML, CSS, JSON, CSV

Libraries & Frameworks: NumPy, Pandas, Matplotlib

AI & Data Science: Gemini API, ML Model Integration, Exploratory Data Analysis (EDA)

Backend Tools: Firebase, Supabase

Frontend & Design: UI/UX Design, Figma, Canva, Responsive Design

Tools & Platforms: Git, GitHub, Vercel, Railway, Jupyter, Google Colab

Education

Medicaps University, Indore MP

Bachelor of Technology (B.Tech.) in Computer Science and Engineering (Data Science)

Timeline: August 2025 – June 2029 [Expected] | CGPA: 7.97 (1st Year)

Experience / Hackathons

Independent Research | Offline Emergency Alert Systems

Researcher — Published Author | July 2026

- Published "Offline Emergency Alerts Using Compressed Broadcast Codes and On-Device AI" as a preprint on Zenodo (DOI: 10.5281/zenodo.21357525), with a working prototype currently in development.
- Proposed an offline-first architecture that compresses disaster type, user role, evacuation route, and error-checking data into 19–32 byte cell-broadcast payloads, decodable entirely without internet access.
- Designed a tiered on-device AI system where low-RAM phones display a reliable predefined alert while higher-spec devices run a local small language model to generate personalized, localized messages, gated by a rule-based validator that blocks the AI from inventing safety-critical details.

[Paper: View on Zenodo](#) | [GitHub](#)

ISRO B.A.H. Hackathon | AI-Enabled Wavefront Reconstruction

Team Lead / Solution Architect | July 2026

- Led a team for Problem Statement #9 — proposed a deep learning pipeline to reconstruct telescope wavefront distortions from Shack-Hartmann sensor data.
- Designed synthetic training data strategy using HCIPy, proposing a ResU-Net architecture mapping noisy SH-WFS spot patterns to Zernike coefficients and r-0 estimation for real-time AO correction.

Ahinsa Filters | Indore, MP

Web Development Intern | May – June 2026

- Coded the frontend of the company website using HTML, CSS, and JavaScript, making sure the layout works completely on both mobile and desktop screens.
- Organized the site structure and content strategy, manually setting up the pages, product information, and customer review based on actual business data.
- Added functionality inquiry forms to collect client requirements, handling the form data, and checking for bugs before taking the website live.
- Delivered a full live production site featuring a browsable product catalog, cart and checkout flow, client testimonials, and a project gallery, now supporting a business serving 1000+ households.

[Live Site: View](#)

Google Cloud Rapid Agent Hackathon | NHI Governance Agent

Backend & Security Integration Engineer | June 2026

- Built a closed-loop security agent scanning GitHub/GitLab for hard-coded credentials, scoring risk with Gemini 2.0 Flash via Vertex AI across breach cost and blast radius parameters.
- Engineered MongoDB-backed drift tracking, Cloud Pub/Sub real-time alerts, and automated PR-based secret migration to GCP Secret Manager.

[GitHub](#)

Smart India Hackathon (SIH) | Project Nexus

UI/UX & Frontend Designer | September 2025

- Worked on a Punjab Government problem statement to design a gamified environmental awareness platform for children — my first national-level hackathon.
- Designed UI screens and user flow in Figma and Canva, contributing the full design layer to the team's prototype submission.

Projects

InfraForecast

Python, pdfplumber, SQLite, Scikit-learn, Streamlit

- Built a real-data analytics pipeline that extracts project-level cost and schedule data directly from India's MoSPI Flash Report PDFs using pdfplumber, with zero synthetic data.
- Structured extracted records into a SQLite database and trained Ridge regression models to forecast expected delay months and cost-overrun percentage for any sector/state/budget combination.
- Delivered a 4-page Streamlit dashboard covering sector trends, state rankings, and a chronic-offenders view ranking repeat-delayed projects by severity score.

[GitHub](#)

Kaushift

Community Platform

- Designed a platform for founders to share honest, unfiltered startup failure stories, anonymously or publicly, treating each post as a structured case study rather than a generic rant.
- Structured submissions to surface recurring patterns behind startup failure, such as audience mismatch, timing, cofounder conflict, and cash flow, turning individual stories into reusable, pattern-backed data.
- Architected the platform as a foundation for a future AI layer trained on verified founder failure data instead of generic internet content.