

# Ishaant Singh

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## Summary

Data Science & AI undergraduate specializing in Full Stack Engineering and Generative AI. Proven track record of building autonomous agents and scalable systems (LoanAgent, HeartSync) using Python, MERN, and IBM Watsonx. Passionate about solving complex problems through RAG architectures, cloud-native development, and agentic workflows.

## Experience

### Web Development Intern

Bharat Intern

August 2024 – September 2024

Remote

Engineered responsive web solutions (weather app, portfolio), ensuring 100% cross-browser compatibility.

Collaborated in an agile environment to deploy feature-rich prototypes, reducing page load times by 20%.

## Projects

### LoanAgent (IBM Bank Agent) | Python, Flask, Watsonx | GitHub

Architected an autonomous loan system using \*\*ReAct\*\*, reducing verification time by \*\*95%\*\* (days to minutes).

Implemented a \*\*RAG pipeline\*\* with \*\*IBM IAM\*\* security to cross-reference data with RBI guidelines.

Deployed a production-ready, scalable backend on \*\*IBM Cloud\*\*, ensuring enterprise-grade reliability.

### HeartSync | Node.js, Express, Gemini 1.5 | GitHub

Built a memory-persistent AI chat platform with \*\*Gemini 1.5\*\*, increasing user engagement via emotional intelligence.

Optimized processing of 10k+ line WhatsApp exports using \*\*Multer\*\* for personalized prompt engineering.

### Nyay-Darpan | React, Vite, Appwrite, AI | GitHub | Live Demo

Designed a government land rights portal with an AI Decision Support System to automate "Patta" issuance.

Streamlined the Forest Rights Act workflow, eliminating manual errors for rural claimants.

## Leadership Responsibility

### Core Team Member & Tech Mentor

JECRC

Department of AI & Data Science

Mentored 50+ peers in Python and DSA; delivered technical workshops contributing to the coding team's success.

### Treasurer & Poetry Writer

Atrangi (College Club)

Jaipur, Rajasthan

Managed club finances and budget compliance; authored creative content to drive community engagement.

## Technical Skills

**Languages:** Python, C++, Java, JavaScript, TypeScript, SQL

**Frontend/Backend:** React.js, Next.js, Node.js, Express.js, Flask, MongoDB, Tailwind CSS

**AI & Cloud:** IBM Watsonx.ai, LangGraph, RAG, Gemini API, Prompt Engineering, IBM Cloud

**Tools:** Git, GitHub, VS Code, Postman, Vercel, Technical Writing

## Education Achievements

### Jaipur Engineering College and Research Centre (JECRC)

Expected 2027

B.Tech in Data Science and Artificial Intelligence

CGPA: 8.07

**Competitive Programming:** Solved 150+ problems on LeetCode/HackerRank; \*\*4-Star Python Badge\*\*.

**Hackathons:** Secured \*\*Top 5 Rank\*\* in SIH Inter-College Competition for full-stack web development.

**Certifications:** Machine Learning (NPTEL), Python (Cisco), Introduction to C (NPTEL).