

DATA SCIENCE UNDERGRADUATE (IBM) • FULL-STACK DEVELOPER

ISHAAN CHOPRA

OPEN TO INTERNSHIPS

Data Science undergraduate at Lovely Professional University with hands-on experience engineering full-stack Python & FastAPI web applications, cloud MySQL analytics dashboards, and 60 FPS interactive 3D browser interfaces. Proven track record shipping production code across 36-hour hackathons and scaling digital media content to **10M+ views**.

Email: ishaanchopra17@gmail.com **Phone:** +91 8968540658 *(Text/WhatsApp only — in uni schedule)* **Web:** ishaanchopra.me
GitHub: github.com/IshaanChopra02 **LinkedIn:** in/ishaan-chopra-b15a003b0

TECHNICAL PROJECTS

github.com/IshaanChopra02

StockSense — Full-Stack Inventory Management System

github.com/IshaanChopra02/StockSense ↗

Production Web App & Hackathon Build (Also see: /Hackathon)

- Engineered an end-to-end inventory management platform featuring OTP-verified user sign-up, demo access provisioning, and secure session authentication.
- Built real-time Total Products & Low Stock Alert KPI modules with full CRUD operations backed by FastAPI, SQLAlchemy, and SQLite/MySQL.
- Designed a responsive Tailwind CSS interface with native dark/light theme switching and deployed a parallel Streamlit + Cloud MySQL build.

`Python` `FastAPI` `SQLAlchemy` `SQLite / MySQL` `Streamlit` `Tailwind CSS`

LPU Copilot — AI-Assisted Campus Discovery Guide

github.com/IshaanChopra02/lpu-copilot-main ↗

Built during CODE FLUX 2026 (36-Hour Hackathon at LPU)

- Developed a natural-language campus discovery web app (*"Where do you want to be today?"*) tailored for LPU students and freshmen.
- Implemented an intent-matching engine that parses conversational prompts (e.g., *"study in peace and grab a cold coffee"*) to shortlist study corners, cafés, and facilities.

`JavaScript (ES6+)` `Natural Language Intent Logic` `HTML5` `CSS3`

Student Performance Analyzer

github.com/IshaanChopra02/student-performance-analyzer ↗

Cloud MySQL + Streamlit Academic Analytics Dashboard

- Architected a cloud-backed Streamlit web application connected to Aiven MySQL for full CRUD management (Add, Search, Update, Delete) of student records.
- Automated Pandas and Matplotlib visualization pipelines to chart cohort grade distributions and isolate top and bottom performers.

`Python` `Streamlit` `Aiven MySQL` `Pandas` `Matplotlib`

Interactive 3D & Generative Web Portfolio

ishaanchopra.me ↗

Custom Domain Deployment & Automated GitHub Profile

- Built a 60 FPS interactive developer portfolio featuring custom HTML5 Canvas particle physics, 3D perspective tilt cards, and WebGL neural/torus experiments.
- Configured automated GitHub Actions workflows for dynamic SVG contribution graphs (`IshaanChopra02/IshaanChopra02`).

`JavaScript` `Three.js / Spline 3D` `HTML5 Canvas` `GitHub Actions`

RESEARCH & INTELLECTUAL PROPERTY (IPR)

Lovely Professional University

INVENTION DISCLOSURE FORM (IDF) — SEPT 2026

Dual-Wall Vacuum-Insulated R290 Safety Conduit System

Designed a dual-wall vacuum-insulated safety conduit architecture for air conditioning systems utilizing flammable R290 hydrocarbon refrigerant, focusing on thermal efficiency and leak-containment safety.

5+ Apps — Full-Stack & Data Repos

10M+ Views — 6K+ Subs on @sparkleee

36 Hours — CODE FLUX '26 Hackathon

59+ Commits — 12 ★ on GitHub Profile

TECHNICAL SKILLS

Languages & Core

`Python` `SQL` `C` `JavaScript (ES6+)` `HTML5 (77.3%)` `CSS3`

Data Science & Analytics

`Pandas` `NumPy` `Matplotlib` `Exploratory Data Analysis` `KPI Dashboards`

Frameworks, Web & 3D

`FastAPI` `Streamlit` `SQLAlchemy` `Tailwind CSS` `Three.js` `Spline 3D` `HTML5 Canvas`

Databases, Cloud & DevOps

`MySQL (Aiven Cloud)` `SQLite` `Git & GitHub Actions` `Vercel` `Render` `Streamlit Cloud` `Linux`

EDUCATION

Lovely Professional University — 2026 – Present
BCA in Data Science (IBM Collaboration)
Jalandhar, Punjab • 1st Term in Progress

Innocent Hearts School — Class XII: 82.2%
Senior Secondary (Commerce with IP)
Class X Score: 84.4% • Jalandhar, Punjab

LEADERSHIP, MEDIA & CERTS

YouTube Creator (@sparkleee)
Scaled channel to **6,000+ subscribers and 10M+ total views**; experienced in motion design and video editing (VEGAS Pro, Filmora).

CODE FLUX 2026 & Stage Anchor
Competed in CodingBlocks' 36-hour hackathon at LPU; served as live stage anchor at university events (Sept 2026).

be10x AI Tools & ChatGPT Workshop
Certified in AI-assisted coding, prompt engineering, and developer productivity workflows (Sept 2026).

Scan for Live Portfolio & Repos
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