

RITIK DESWAL

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Summary

Passionate about data science and always looking to learn. I've built projects using Python, SQL, and machine learning, and I'm excited to bring that curiosity and energy into a real-world role where I can grow and make an impact.

Education

Kurukshetra University

Bachelor of Computer Applications (BCA) — Computer Science

Kurukshetra, Haryana, India

Aug 2023 – June 2026

- **Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering, Object-Oriented Programming.

Experience

UFLEX Limited

Software Development Intern (Python & Data Science)

Sector 60, Noida, Uttar Pradesh, India

Jul 2025 – Aug 2025 (2 months)

- Designed and deployed **BookLand**, a production-ready Django-based eCommerce platform for eBooks, serving end-to-end user journeys including registration, catalog browsing, cart management, and checkout.
- Engineered a **secure authentication system** using Django's built-in hashing (PBKDF2-SHA256), reducing unauthorized access risk by enforcing session-based authentication across all user flows.
- Architected a **normalized relational database schema** using Django ORM, optimizing query performance with proper indexing and reducing average read latency by eliminating redundant data joins.
- Built **RESTful API endpoints** to decouple frontend presentation from backend logic, enabling modular feature development and future mobile-client integration.

Projects

RKDCoder — AI Code Builder | *JavaScript, HTML/CSS, REST APIs, Gemini, Ollama*

2024–2025

- Independently architected an AI-native browser-based code editor integrating multiple LLM backends (Google Gemini, OpenRouter models, Ollama local inference), enabling real-time code generation and patching.
- Implemented robust diff/patch algorithms to apply AI-generated code changes atomically, reducing merge errors and improving developer workflow efficiency.

Interactive Portfolio Website (checkme.qzz.io) | *HTML5, CSS3, JavaScript, Bootstrap, Tailwind CSS*

2024–2025

- Designed and developed a responsive, interactive portfolio website to showcase technical projects, skills, and professional experience with smooth navigation, dynamic skill categorization, and mobile-optimized layouts.
- Integrated live project demos, GitHub source-code links, and a functional contact form; deployed with a custom domain for professional web presence.

Technical Skills

Languages: Python, JavaScript, HTML5, CSS3

Libraries & Tools: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn

Databases: MySQL, MongoDB, PostgreSQL

Developer Tools: Git, GitHub, VS Code, Jupyter Notebook, Google Colab

Concepts: Machine Learning, Data Wrangling, EDA, Data Visualization, Data Structures & Algorithms

Achievements & Activities

- **End-to-End Project Delivery:** Independently built and shipped BookLand — a full-stack production web application — within a 2-month internship, demonstrating strong ownership and execution speed.
- **Self-Directed AI Integration:** Developed an AI-powered code generation platform as a personal project, integrating Google Gemini, OpenRouter, and Ollama APIs with custom diff/patch logic.
- **Front-End Development:** Designed and implemented responsive, accessible UIs with modern CSS (glassmorphism, dark mode) for production web applications.