

Harshverrdhon Singh Tanwar

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ABOUT ME

A passionate technophile and frontend developer turning ideas into immersive web experiences — some where users tap into AI through simple interactions, others built on good old-fashioned logic. Fueled by a lifelong algorithm of curiosity and technical discovery, shipped with a few unexpected features.

EDUCATION

PG Diploma in Big Data Analytics, CDAC ACTS	Sep 2023 – Feb 2024 · 82.25%
B.Tech in Computer Science and Engineering, JK Lakshmipat University	May 2019 – Nov 2023 · 85.69%
CBSE Class XII, St. Anselm's Sr. Sec. School	Apr 2017 – May 2018 · 82.40%
CBSE Class X, St. Anselm's Sr. Sec. School	Apr 2015 – May 2016 · 85.50%

SKILLS

- **Frontend:** TypeScript, JavaScript, React, Next.js, Tailwind CSS, Ant Design, React Bootstrap, TanStack Query, Zustand
- **Backend:** Python, Java, Django, REST APIs, MySQL, MongoDB, SQL
- **AI & Data Science:** LLM APIs, scikit-learn, pandas, NumPy, OpenCV, Model serving
- **Tools & Practices:** Git & GitHub, Playwright, Figma, UiPath Studio, Vercel

WORK EXPERIENCE

Frontend Web Developer, AssessPrep Apr 2025 – Present

- Optimized critical application workflows by reducing redundant backend requests, improving latency and overall user experience.
- Developed an AI-based assessment creation tool that allows teachers to generate a wide variety of questions, with full support for attachments such as PDF files, images, and other media from which questions can be generated.
- Implemented AI-powered mark scheme generation that provides a detailed breakdown of how each mark should be awarded, guiding teachers and students with clear and structured grading criteria.
- Built automated grading workflows capable of handling zero-attempt submissions, response grading states, and grading cancellation.
- Created a unified grading progress synchronization system to ensure consistent status across all application views.
- Implemented per-question AI grading that evaluates student responses, generates feedback, and adapts to configurable grading styles such as strict or lenient mode, offering flexibility for different teaching preferences.

Frontend Web Developer, CDAC Apr 2024 – Mar 2025

- Created comprehensive wireframes using Figma to clearly define user interface structure, workflows, and layouts for software projects.
- Developed visually polished and user-friendly frontend interfaces that adhered to the wireframes and met the functional and aesthetic goals of the project.
- Implemented core frontend logic to support key application workflows ensuring seamless integration with backend systems.

PROJECTS

Realtime ML — github.com/HarshTanwar1/realtime-ml Django · scikit-learn · pandas · NumPy

- Stacking ensembles for heart-disease classification and fuel-economy regression, tuned with GridSearchCV.
- Served real-time predictions through a Django web UI, applying the same preprocessing at inference as in training.
- Benchmarked ensembles against tuned individual models (SVM, k-NN, Random Forest) on consistent metrics.

Question Overflow — github.com/HarshTanwar1/question-overflow Django · Stack Exchange API · SQLite

- Live Stack Overflow search via the Stack Exchange API — paginated, clickable results sorted by activity.
- Ten-minute response caching cuts redundant API calls and speeds up repeat searches.
- Per-IP rate limiting (5/min and 100/day) via django-ratelimit keeps usage within API quotas.

ACHIEVEMENTS

- Dean's List in 7 of 8 semesters — graduated ranked 5th in the CSE batch, JK Lakshmipat University.
- Cloud Application Developer Mastery Award — IBM.
- Only student in the batch selected for an international internship — Ignitus, Spain.
- Two applications live in production — AIIMS and AssessPrep.