Saksham Kaushal

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EDUCATION

Delhi Technological University — New Delhi, India
B.Tech in Software Engineering, CGPA: 8.7 — *2022 – 2026*

Abhinav Public School, Pitampura — New Delhi, India
AISSCE/CBSE (Class XII), PCMB+English, 91.2%, — *2019 – 2021*

KIIT World School, Pitampura — New Delhi, India
AISSCE/CBSE (Class X), 94% — *2019*

ACADEMIC PROJECTS

Evo2 Variant Analysis | *ReactJS, NextJS, Modal, FastAPI*
- A web app that leverages a **state-of-the-art LLM Evo2** to predict the **pathogenicity** of genetic variants.
- Deployed **Evo2**-powered **FastAPI** on **Modal's serverless H100 GPUs**, processing more than **1k SNV/s**.
- Built **Next.js/T3 UI** for the human genome & 20k+ ClinVar variants.
- Integrated UCSC/NCBI APIs for **23k genes**, **halving** user data-lookup time.

PDFLion | *NextJS, ReactJS, OpenAI, NeonDB, ImageKit*
- A web based app which converts PDF into **Notes, Flashcards, Summaries, etc** without losing context.
- A robust and scalable pipeline using **MistralOCR**, **OpenAI** and **Gemini** and displaying the output as markdown.
- Proper user dashboard with **credit system** and payment integration.
- Extensively used by **10+ classmates** for exam preparation.

Course Registrar DTU | *Electron, NodeJS, Burp Suite*
- Engineered a robust automation system for DTU's course registration by reverse engineering APIs and **HTTP requests** using **Postman** and **Burp Suite**.
- Implemented session reinitiation, error management and logging with a clean UI.
- Optimized GET/POST requests and cookie management, reducing registration time to under 900ms.
- Helped over **50+ students** get **200+ desired courses**.

humanization-playwright | *Python, Playwright*
- Simulates **8 human behaviors** (Bezier mouse paths, variable typing, natural scroll/drag) to mimic real users.
- Deployed on pypi, implemented proper logging using **Loguru**.
- Successfully integrated in a robust Gmail account creator tool.

Forever Ecom | *ReactJS, MongoDB, Prisma, ExpressJS, NodeJS, AWS*
- Built full-stack **MERN** e-commerce site with **React**, **Node.js/Express**, **MongoDB** and deployed on **AWS**.
- Integrated **Stripe** & **Razorpay** gateways plus CoD option.
- Developed admin dashboard using RESTful **Node.js/Express** APIs for product CRUD and order oversight.

PROFESSIONAL EXPERIENCE

Operations & Automation Intern — May 2024 – August 2024
Saarthi e-Rickshaw — *Delhi, India*
- Built automation tool with **Playwright**, reducing data entry time by 70%.
- Handled **200+ Vahan 4.0 registrations**, ensuring RTO compliance and streamlining document verification.

ACHIEVEMENTS & AWARDS

- Ranked **376** out of **75,000** teams in the **Amazon ML Challenge** 2024 with a top model **F1-score of 0.302**, achieving the **2nd highest** score at DTU.
- **Knight** on Leetcode and completed **1,000+** DSA problems on Leetcode, Codeforces, and Codestudio.
- Achieved AIR **14,567** in JEE Mains 2022 among **1,026,799** candidates (top **1.6%**).
- Earned the KVPY Fellowship with an AIR **670** in KVPY SX 2020, securing an offer for a BS degree at **IISc Bangalore**.

TECHNICAL SKILLS & TOOLS

Languages: C++, JavaScript, TypeScript, Python, Java(Basics), Go(Basics)
Databases: SQL, MongoDB, Postgres, Qdrant
Frameworks: React, NextJS, FastAPI, TailwindCSS, Electron
Tools: Linux, Postman, Git, Burp Suite, Playwright, Prisma ORM, Drizzle ORM
Coursework : DSA, LLD, DBMS, OS, CN, ML, Data Analytics, Software Testing, Agile Methodology