Yashika Lalwani

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EDUCATION

Chhattisgarh Swami Vivekanand Technical University, *Bhilai, India* — Graduated in July 2023
B.Tech , Computer Science Engineering — Percentage: **89.2/100**
Thesis: A Workflow paper on an effective approach for Face Spoofing Detection Using CNN - **IJSDR**

WORK EXPERIENCE

Associate Developer — *ABBYY* (Bengaluru, India)   *Dec '24 - Dec '25*
. Improved complex filter and query performance by **60–75%** for 10+ million row datasets.
. Refactored React components to re-renders by **40–60%** using memoization and optimized state flow.
. Migrated analytics workloads to **ClickHouse**, achieving **3–5× faster** query execution for dashboards.
. Built reusable components, for frontend consistency and reducing new feature development effort by **30%**.
. Added multiple unit and integration tests using Jest and RTL, reducing regression issues.

Associate Software Engineer — *Innodeed Systems Pvt. Ltd.*   *Aug '23 - Dec '24*
. Independently owned a project frontend, improving delivery speed and development efficiency by **35%**.
. Worked on a major Indian bank platform, implementing secure UI flows and optimizing API interactions for smoother customer journey.
. Built full-stack features using React, Node.js, TypeScript, and MongoDB.
. Optimized REST APIs, improving response times by **25–30%** with efficient logic and database queries.
. Created a reusable component library with multiple shared components, which was used project-wide by the team, improving UI consistency and reducing duplication by **30–40%**.
. Worked with Backend, QA, and Design teams to deliver features on schedule (**90%** sprint completion rate).

KEY PROJECTS

Travel AI — travel-ai-swart.vercel.app   *Oct '25*
. Full stack AI travel planning assistant built with **Next.js** and **FastAPI**. Using Google Gemini **LLM** API.
. Created a data model for Travel Itineraries in **pydantic**. Created a **Domain Specific Language** (DSL) for creating and modifying Itinerary objects. This solves issue of hallucinations and wrong schema output.
. Prompted LLM to help user by generating DSL commands as well as gave it a scratchpad for strring state.
. Added responsive UI and chat-like UX. Enriched the plan with stock images from *Unsplash* and *Pexels* API.

QueryCraft — query-craft-app.vercel.app   *Nov '25*
. Made a visual SQL query builder for analysts to create complex queries without writing SQL manually.
. Added "Explain with AI" feature to summarize generated query using **Gemini API** for LLM.
. Designed node-based UI patterns (tables, filters, joins, etc) and smooth drag and drop canvas interactions.
. Implemented custom SQL compiler that converts user made graph to optimized, alias-safe CTE SQL.
. Developed a schema-aware system that dynamically infers node output schemas for accurate suggestions.

Graphical Password Authentication   *Aug '22*
. Finalist project in **Smart India Hackathon** 2022 in Cybersecurity and Blockchain track.
. Built a graphical password authentication system using image-based login.
. Mapped each selected image to a securely generated token stored in the database.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Python, SQL, C/C++
Frontend	React, Next.js, Redux, Material-UI, Tailwind, Chart.js
Backend	Node.js, Express, FastAPI, REST APIs, WebSockets
AI	Google GenAI SDK, Prompt Engineering, Response validation
Databases	MongoDB, PostgreSQL, MySQL, ClickHouse
Cloud/DevOps	AWS, Docker, GitHub Actions
Testing	Jest, RTL, Cypress, Mocha, PlayWright
Core	Full-Stack Development, API Design, Performance Optimization, Agile