# Ayush Pal

github.com/ayush1944  linkedin.com/in/ayush-pal-25b628255/  palayush930592@gmail.com

## RESEARCH INTERESTS

Passionate about building real-world applications at the intersection of **Full Stack Web Development** and **Artificial Intelligence**. Actively exploring **AI Agents**, **Generative AI** (text-to-text/image summarization), and **Multimodal Interfaces** to assist creators, learners, and developers. Deeply interested in integrating AI with modern stacks (MERN, Next.js, Firebase, Serverless) to build intelligent, user-first digital tools.

## EDUCATION

**JSS Academy of Technical Education**                                                                    June 2026
*B.Tech ECE*

**DAV Public School Khadia**                                                                                    June 2021
*Intermediate*

## SKILLS

**Languages**: JavaScript, TypeScript, Python, C/C++,
**Web Technologies**: React.js, Next.js, Node.js, Express.js, Tailwind CSS, Redux, TanStack Router
**Databases & Backend**: MongoDB, Firebase (Realtime DB, Auth, Storage), PostgreSQL, Serverless Functions
**AI/ML Libraries**: PyTorch, TensorFlow, NumPy, Pandas, OpenCV, Transformers (Hugging Face)
**DevOps & Tools**: Git/GitHub, Docker, Postman, VS Code, Vercel, Netlify, GitHub Actions
**Cloud & Hosting**: Vercel, Firebase Hosting, GitHub Pages
**Other Skills**: Real-time Communication (Socket.IO), CI/CD Basics, WebSockets, Authentication, SEO Optimization

## PROJECTS

**ChotaLink – URL Shortener** | *MERN, Tailwind, Vercel*  Code                                  June 2024
- Developed a minimal, full-stack link shortener with user authentication and custom dashboards.
- Used MongoDB for storage, TanStack Router for navigation, and deployed using Vercel.

**NakliZon – E-commerce Platform** | *MERN Stack, Stripe, Tailwind CSS*   ” Live Link ”          Nov 2024
- Built a full-fledged e-commerce site with features like product filtering, cart, checkout, and order management.
- Implemented an admin panel for product CRUD, JWT-based user authentication, and secure Stripe payments.
- Focused on clean UI/UX with reusable React components and state management.

**Kabutar – Real-time Chat App (Cross-platform)** | *React, Socket.io*  Code                     Mar 2025
- Created a real-time messaging app with a shared JavaScript codebase using Vite for web.
- Implemented responsive UI (Tailwind for web, Styled Components for mobile) and deployed with GitHub Actions.

**Blog-Summarizer Agent** | *AI, LLMs, Web Integration (In Progress)*
- Designing an AI agent that can read, understand, and summarize blogs in human-friendly language.
- Helps users who struggle to write or understand content by generating smart summaries and explanations.
- Integrates with blog platforms using REST APIs and OpenAI-powered text processing.

## COURSEWORK & MOOCS

**Full Stack Web Development Cohort 2.0** | *100xDevs by Harkirat Singh*
- Hands-on training in MERN stack, CI/CD pipelines, Docker, Serverless architecture, and System Design.

**Front-End Domination: Create Anything with Code** | *Sheryians Coding School*
- Built strong fundamentals in HTML, CSS, JavaScript, DOM manipulation, and modern frontend development.
- Practiced interactive design, layout techniques, and component-based architecture with real-world projects.