

SAYANI GHATAK

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PROFESSIONAL SUMMARY

Software Engineer at TCS with 2+ years of experience building production-grade frontend and full-stack applications. Skilled in React, Next.js, Angular, and Node.js, with hands-on ownership of a compliance platform(CMS,DPDP and DSR portal) currently under client evaluation. Independently shipped multiple full-stack AI projects using RAG pipelines and LangChain. Multiple-award winner at TCS for consistent, on-time delivery.

TECHNICAL SKILLS

Languages: Java, Python

Frontend: React 19, Next.js 15, Angular, TypeScript, Tailwind CSS, Shadcn/UI, HTML5, CSS3

Backend & Databases: Node.js, Express.js, REST APIs, MongoDB, MySQL, Prisma ORM

AI & ML: LangChain, RAG Pipelines, Gemini API, OpenAI API, Pinecone, Vercel AI SDK

Testing & Tools: Git, Karma, Jasmine

PROFESSIONAL EXPERIENCE

Tata Consultancy Services

Sep 2024 – Present

Software Engineer (Product Engineer) | BFSI Unit — Banking Products Team

Kolkata, India

- Built the Consent Management System(CMS),DPDP Admin portal, DSR portal from the ground up using Angular and Typescript to support enterprise-wide DPDP Act compliance; the product is under active evaluation and has been presented 16+ client stakeholder.
- Developed and maintained UI modules across multiple banking products — ULIP, SBI Loan, Business Partner, Product Configurator, and Consent Management (DPDPA) — using Angular and TypeScript.
- Integrated 10+ REST APIs across key modules (accounts, transactions, fund transfers), ensuring smooth and reliable data flow in production.
- Improved application performance by reducing average page load time from 3.5s to 1.4s, a 60% improvement.
- Increased unit test coverage to 85%+ by writing Karma and Jasmine test specs, reducing production bugs by ~40%.
- Performed regular code refactoring and bug fixes to improve code quality and maintainability across multiple product modules.

PROJECTS

SkillForge — AI Learning Platform (SaaS) [GitHub ↗](#) | [Live Demo ↗](#)

- Built a full-stack AI-powered SaaS learning platform featuring AI tutoring, mock interviews, and smart quizzes.
- Technologies: Next.js 15, React 19, TypeScript, Vercel AI SDK, Sanity CMS, Zustand, Clerk, Mux, Tailwind CSS.
- Reduced video buffering by 60% via Mux streaming and Vercel Edge caching; improved Lighthouse page speed score by 45% through performance optimization.

ChatPDF — Chat with Any PDF using AI [GitHub ↗](#)

- Built an AI-powered document Q&A app where users upload a PDF and receive context-aware answers in real time.
- Technologies: Next.js 15, TypeScript, LangChain, Gemini 2.5 Flash, Pinecone, Tailwind CSS.
- Implemented a full RAG pipeline — PDF chunking, Gemini vector embeddings, Pinecone storage, and streaming responses — with auth, PDF viewer, dark/light mode, and chat history.

SmartSite AI — AI Website Builder [GitHub ↗](#)

- Built an AI tool that generates a complete website from a text prompt with live preview across mobile, tablet, and desktop.
- Technologies: React, Node.js, Express.js, PostgreSQL, Prisma ORM, TypeScript, Tailwind CSS.
- Integrated OpenAI API for website code generation; implemented a credit-based payment system, secure login, inline editing, and one-click publish/download.

EDUCATION

JIS University

Jun 2020 – Jul 2024

B.Tech in Computer Science & Engineering | CGPA: 9.25 / 10

Kolkata

ACHIEVEMENTS

- IEEE Best Paper Award (2023)** — Research paper on Machine Learning recognized as Best Paper at an international IEEE conference during final year of study.
- Toycathon 2021 — National Winner, 1st Place** — Ranked 1st among 1,000+ teams across India for designing a tech-based educational toy concept.
- 3x On-The-Spot Award, TCS (2025–26)** — Awarded three times for consistently delivering high-quality work ahead of deadlines in a live banking project.