

Nupur Bhaisare

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SUMMARY

AI engineer, 2x founder, and **IIT Kharagpur** graduate who has shipped production systems end to end, from an AI platform that turns codebases into a queryable product graph and an agentic pharma workflow builder shipped to Piramal and Revlon, to Svitch, an Android and iOS app for influencers, and OneAgrow, a neo-bank PWA.

EDUCATION

Indian Institute of Technology (IIT) Kharagpur, India

Dual Degree (B. Tech + M. Tech) (Honors) in Electronics and Electrical Communication

GPA: 8/10

Aug 2015 - June 2020

EXPERIENCE

Glue.tools (Nuvio) ([Read Details](#))

Founding Engineer

Apr 2026 - Present

Bangalore, India

A ProductOS platform that turns a product's codebase into a queryable code graph and its connected systems into product context. This works in both directions: code-to-spec, generating feature documentation and walkthroughs, and spec-to-code, taking a spec through a development plan to implementation.

- Built **deterministic, language-specific codebase indexers** for Java, TypeScript, and Python that parse source into a **code graph** containing web routes, symbols, and symbol calls.
- Architected indexing as an **event-driven pipeline** on **AWS SQS + Lambda**: **Dockerized** workers with **per-stage checkpointing** to make multi-stage runs independently scalable and resumable.
- Built **async integrations** with ClickUp, Jira, Linear, Slack, and Sentry that ingest and normalize external tickets, conversations, and error signals into **unified product context**.
- Built **LangChain** agents over the **context graph** and connected systems for **code-to-spec** feature documentation and for turning tickets and bugs into **root-caused dev plans**, with a **LangGraph HITL orchestrator** for iterative refinement.
- Instrumented agents with **LangSmith** for tracing and cost/latency **observability**, and built an **offline LLM-as-judge eval** suite scoring **correctness, groundedness, tool selection, and trajectory**.
- Built an **MCP server** exposing the product graph and dev plans as native tools in IDEs and AI coding agents.

Leucine ([Read Details](#))

Senior Software Engineer (AI Products)

Aug 2023 - Mar 2026

Bangalore, India

Leucine's flagship AI bet: an agentic, GMP-compliant pharma workflow builder that lets each manufacturer turn its own plain-English SOPs into fully auditable manufacturing workflows, replacing bespoke per-client engineering with self-serve configuration.

- Built it from inception alongside the CPO/CTO; **led a team of developers** and engineered frontend, backend, basic CD, and the AI architecture and agents.
- Architected a **deterministic, LLM-powered workflow engine** that renders auditable, **RBAC-gated** forms, with a **Palantir-inspired, SQL-based action engine** that emits ordered side-effects on submission.
- Built a **pgvector RAG** pipeline over pharma SOPs, with **layout-aware extraction** and chunking run async on **Cloud Run + Cloud Tasks** to ground form generation, plus a **precision/recall eval set** to validate it.
- Built a **multi-stage agentic harness** that turns plain-English SOPs into a complete workflow: the ontology, form configurations, SQL-powered actions and effects, and read-only workflow pages.
- Built **self-healing** into the harness: it validates each generated config against **synthetic data** in a sandbox and auto-corrects corruption, making weaker LLMs **production-reliable**.
- Shipped the platform to production for marquee clients including **Piramal Pharma (India) and Revlon (USA)**, with deals on the product totaling **over \$500K**.

Svitch.it ([Read Details](#))

Co-Founder/Tech-Lead

May 2022 - May 2023

Bangalore, India

- Co-founded Svitch.it, a D2C discovery & creator monetization platform, and **led the end-to-end development** of the android & iOS app, Shopify dashboard & the e-comm web-app attracting angel investment & onboarding **1000 creators**.
- Designed the architecture, developed & published** the cross-platform discovery & monetization app using technologies like Flutter for front-end & AWS, Node.js for backend.
- In the D2C discovery app, built features including **product search** & filtering using elastic search, Firebase deep links & messaging for **notifications & sharing, product recommendation** & mapping algorithms, Google analytics for engagement tracking.
- In the creator monetization app, built features including affiliation sales analytics dashboard, creator collaborations & **in-house chat app**, LinkedIn like creator-campaign matching platform.
- Developed a **Shopify Dashboard** app using Firebase, React, Typescript, and NodeJs, providing **real-time inventory syncing, pixel tracking, detailed sales analytics**, and campaign creation for D2C brands.
- Built highly optimized creator storefronts (web app) for shopping with **load time under 500ms** with Instagram like feed containing creator videos & product posts.
- Managed tech & graphics interns** and involved in planning marketing strategies to onboard creators & D2C brands.

OneAgrow ([Read Details](#))

Co-Founder/Tech-Lead

Mar 2020 - Feb 2022

Mumbai, India

- Co-founded OneAgrow, a credit-led neo-bank for Bharat, and **led the end-to-end development** of the **neo-banking app** attracting angel investment right after graduation and gaining traction with **5,000 farmers**.
- Built & published (Play Store) the neo-banking app as a progressive web app (**PWA**) using React, Firebase & Node.js. Optimized it

for **low-end devices** & slow internet resulting in a feature-rich app **under 1 MB**.

- Integrated & launched **Bharat Bill Pay Service** in partnership with **IndusInd Bank, approved by the NPCI**, expanding payment services for farmers across **16 categories**.
- Integrated with IndusInd Bank's lead generation and account management APIs, streamlining the **post-harvest credit** application process and facilitating **savings account creation**.
- Leveraged external APIs, such as the Dark Sky API and Indian government's Mandi price APIs, to build **multi-lingual crop & weather-based insights** feature and real-time **location-based crop prices** at all major Indian Mandis.
- Developed an in-house **chat app** using Firebase **real-time database**, enabling seamless collaboration among farmers.
- Digitized best farming practices and diseases associated with 100+ crops, delivering a user-friendly interface accessible in multiple languages.
- Built an experimental **AI model to predict the Mandi prices** based on weather & location of 25 major crops. Collected & processed **25 years of historical crop yield & weather data** to train this model.

Yodlee

May 2019 – July 2019

Data Science Intern (Lead Data Scientist: Received Pre-Placement offer post internship)

Bangalore, India

- Built a Decision tree-based classifier (Random Forest, Ensemble: RF + XGBOOST) with **93%** accuracy to accurately classify **8 million** individuals as businesses, high-net-worth individuals (HNIs), or salaried individuals.
- Utilized Python, SQL, and Pyspark to process big data across distributed systems, automate & reduce ML model **execution time by 80%** as compared to manual operations.
- Wrote **special data cleaning ML algorithms** to ramp up the classification accuracies – going up to **97.4%** for one category

ACADEMIC PROJECTS

Keystroke Dynamics for Imposter Detection, IIT Kharagpur

Mar 2018 – Apr 2018

- Carried out imposter detection using a Gaussian Naïve Bayes classifier by using a combination of keystroke dynamics and mood analysis as a biometric for authentication.
- Feature Engineering from keystroke dynamics: Dwell Time, Flight Time, analyzed over 3 moods: Happy, Sad, Neutral.
- Achieved a classification accuracy of 72.47%. The trained classifier predicts the user as well as their mood on new login.

SKILLS

AI / ML Systems: Claude Agent SDK, MCP, RAG, Prompt Engineering, LLM Ops, Claude Skills, LangChain, LangGraph, LLM Orchestration, Tool/Function Calling, LLM Gateway & Model Routing, pgvector

Languages: JavaScript, TypeScript, Dart (Flutter), HTML, CSS, Python, Java, SQL

Tools & Frameworks: React, Redux, Node.js, Express.js, FastAPI, Vite, Firebase, PostgreSQL, AWS, GCP, Docker, GitHub Actions, PWA, Google Analytics, Android Studio, Lighthouse, Postman, Shopify, Supabase, Next.js