

Swapnil Dhavate

Business Analyst | Manufacturing Execution System (MES) and ERP

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SUMMARY

Business Analyst with 3 years as a BA and 4 years in the manufacturing domain. For three years, I have worked on Manufacturing Execution System (MES) and ERP projects, writing the FRDs, business rules and user stories that turn plant processes into working software. Before that, I worked at a specialty chemicals plant and ran my own tofu factory for two years, so I know how the shop floor runs before I write the spec. I check my work in the browser with Playwright before UAT, and use Claude Code with MCP (Jira, Confluence, Figma, draw.io) daily. Looking for Business Analyst, Product Analyst or Functional Consultant roles in manufacturing, ERP and MES products.

SKILLS

Business analysis: Requirement elicitation, BRD, FRD and FSD, business rules, gap analysis, process mapping, user stories and acceptance criteria, RTM, data mapping, business cases

Delivery: Agile and Scrum, sprint planning and estimation, MoSCoW prioritisation, UAT coordination, bug triage, stakeholder management

Design and data: Figma, draw.io (UML), MS Visio, Lucidchart, Axure RP, Balsamiq, HTML mock-ups, Excel, SQL, SAP

Testing and AI: Claude Code with MCP (Jira, Confluence, Figma, draw.io, Playwright), Claude, ChatGPT, Gemini

AI-assisted building: I build working tools with Claude Code: I write the requirements, test the output and fix gaps until it works. I don't write the code myself. Stack used: Python, Streamlit, React, Supabase, Cloudflare Workers, GitHub Actions, Google Apps Script, Power Automate, and Telegram, LinkedIn, Gemini and Groq APIs.

Domains: Manufacturing, ERP and Steel Processing

EXPERIENCE

Hind Industec Pvt Ltd, Pune

Sep 2025 to Present

Business Analyst, Manufacturing Execution System (MES)

- Run requirement sessions with clients, plant SMEs and the product team for three MES modules: Work Center Capability Matrix, Process Route and Conversion Master.
- Write FRDs, business rules and user stories with acceptance criteria, and get Product Owner sign-off.
- Build Figma wireframes and HTML prototypes so SMEs can review a design before development starts.
- Configure and validate master data for multi-stage steel processes such as pickling, cold rolling and galvanizing.
- Coordinate UAT and defect triage with development and QA, after running cross-system master-data checks in the browser with Playwright, driven through Claude Code.
- Draft specs, Jira tickets and UML diagrams with Claude Code, connected to Jira, Confluence, Figma and draw.io through MCP.

JM Enterprises, Pune

Sep 2023 to Sep 2025

Business Analyst, ERP (Manufacturing and Quality)

- Ran requirement sessions with production and quality teams for ERP Manufacturing and Quality.
- Wrote the gap report, sorting each requirement into standard, configuration or custom work.
- Wrote the BRD, FRD, process flows and user stories, then user manuals and SOPs for plant staff.
- Set up multi-level BOMs with routing and workstations, and the work orders and job cards that run on them.
- Designed the production planning flow, covering material transfer to the floor, scrap and subcontracting.
- Set up inspections at goods receipt, in process and before dispatch, with non-conformance and CAPA workflows.
- Handled data migration, UAT and user training, then supported production and quality users through go-live.

Soelite Foods

Aug 2021 to Jun 2023

Founder and Owner-Operator, tofu manufacturing

- Set up and ran a 200 kg/day tofu plant, handling production, quality and supply directly.

- Sold retail through e-commerce platforms and supplied B2B customers in dairy and industrial catering.

Laxmi Organic Industries Ltd, Mahad, Raigad

Nov 2019 to Aug 2021

Technical Associate (Manufacturing)

- Standardised manufacturing processes across the plant with the operations teams.
- Worked on the diketene yield improvement programme (yield up 4%) and helped commission its new unit.
- Pulled production data from SAP to analyse yield and track the programme.
- Coordinated production requirements and schedules between manufacturing and planning.

Ganesh Fabrierecon Pvt Ltd, Chhatrapati Sambhajinagar

Jun 2019 to Oct 2019

Trainee Engineer

- On site for the erection and commissioning of a beverage processing plant.
- Internships: HPCL Mumbai (Jul 2018, flare gas recovery), NRL/BPCL Assam (Jun 2018, CDU/VDU), RCF Mumbai (2014 and 2016, acid plants).

PERSONAL PROJECTS

I build small AI tools in my own time with Claude Code. I define the requirements, test the results and run each tool on free tiers. Write-ups, live links and code are on swapnil-dhavate.netlify.app.

- **NursAI Prep** (live): Mock-test web app for nursing students preparing for DHS/DMER and NCLEX exams. Every test is a fresh timed paper with negative marking; the app tracks study time, flags weak topics, and gives admins a question bank with CSV and Marathi upload. mock-test-generator-new.vercel.app
- **Subscription Auditor** (live): Reads CSV and password-protected PDF bank statements and finds recurring charges with testable rules. Flags double charges, price rises and overlapping services, and no bank data goes to an AI service. subscription-auditor-india.streamlit.app
- **AI Chief of Staff** (daily): Sends a 7 AM Telegram brief from Gmail, Calendar, Tasks, Drive and a Microsoft 365 inbox. Rules filter OTPs and promotions first, Gemini sorts the rest, and the tool saves reply drafts but never sends.
- **Job Alert Pipeline and Cover Letter Bot** (every 2 hours): Pulls BA openings from 5 job boards and about 66 company career portals, removes duplicates with a 30-day memory and posts one Telegram digest. A second bot writes a cover letter in Word from a job link.
- **AI Pulse Engine** (daily): Drafts a daily LinkedIn post on AI in manufacturing with an AI-made image, and posts only after I reply YES on Telegram. Rebuilt after real outages with retries, a lighter fallback model and a backup scheduler.
- **Smart Home Agent**: Controls a Samsung smart TV from Telegram by text or voice in English, Hindi or Hinglish, and reports whether the TV confirmed each command.
- **Security Checker**: Scans code and git history for leaked API keys, writes masked reports, and blocks a leak at commit time with a pre-commit hook and a CI check.
- **Also built**: a daily Hindi YouTube Shorts pipeline, Voice Note Idea Catcher, Money Dashboard, a Link-in-Bio page with click analytics, and Public Ship Log.

EDUCATION

B.Tech, Petro-Chemical Engineering , Dr. Babasaheb Ambedkar Technological University, Lonere	2019
Diploma, Chemical Engineering , Dr. Babasaheb Ambedkar Technological University, Lonere	2016

CERTIFICATIONS AND TRAINING

- Business Analyst certification, Udemy (Jun 2025), with Agile Business Analyst training
- 10X AI Tools Workshop, Be10x (Jul 2026)
- Entrepreneurship Development Program, KVIC (Jan 2022)
- Startup India Learning Program, Invest India (Mar 2021)

OUTSIDE WORK

Certified mountaineer, Himalayan Mountaineering Institute, Darjeeling (2023). Executive member, DBATU Alumni Association (2020 to present). NCC cadet (2016 to 2019).