Aashish Bagmar

Pune, India | +91 7588833694 | bagmaraashish@gmail.com | linkedin.com/in/aashishbagmar | github.com/aashishbagmar

Profile

Software engineer who ships production Flutter apps and builds RAG and conversational AI systems in Python. Built an offline-first POS app used daily by a 5-person team, and two AI projects: a self-correcting RAG assistant and a multilingual voice and chat sales agent. Promoted from intern to full-time engineer in 5 months. Co-author of a published paper on news-driven stock prediction.

Skills

Languages: Python, Dart, SQL

AI and RAG: LangGraph, ChromaDB, Ollama, Google Gemini API, Sentence Transformers (all-MiniLM-L6-v2), LSTM, sentiment analysis, prompt design

Backend: FastAPI, REST APIs, Streamlit, pytest

Mobile and data: Flutter, Firebase Firestore, Hive, Provider

Tools: Git, Claude Code

Experience

Junior Software Engineer Apr 2026 to Present
Runwalsoft *Nashik, India*

- Built and deployed a production Android POS app in Flutter and Firebase Firestore for a business, now used daily by 5 staff for billing, inventory, and reporting. Billing time per customer dropped 80%, from 2 minutes to 25 seconds.
- Made the app work without internet: Hive caching and an offline queue store sales locally and sync to Firestore on reconnect.
- Added Bluetooth ESC/POS receipt printing, admin and staff roles, device locking, and an analytics screen with CSV and Excel export.
- Released as a direct APK install, with 200 bills processed in early use. Used **Claude Code** for feature development and code review.

Software Engineer Intern Nov 2025 to Apr 2026
Runwalsoft *Nashik, India*

- Shipped features and fixes for the financial and accounting workflows of a live Flutter and Firebase Firestore app, through Git and senior code review.
- Promoted from intern to full-time Junior Software Engineer after 5 months.

Projects

Self-Correcting RAG Documentation Assistant GitHub

- Built a RAG pipeline with **LangGraph**, **ChromaDB**, **FastAPI**, and **Ollama** that grades retrieved chunks with an LLM, rewrites the query and retries when retrieval is weak, and answers with source citations.
- Tested against a question set covering multiple test cases.
- Ingests PDF, DOCX, TXT, and Markdown with semantic chunking and all-MiniLM-L6-v2 embeddings. Incremental indexing adds new uploads without rebuilding the index.
- The Streamlit interface shows a confidence score, retry count, and source for each answer.

Nova, Multilingual Real Estate Sales Agent GitHub

- Built a sales agent with **FastAPI** and **Google Gemini** that handles chat and voice from one shared prompt, in English, Hindi, and Hinglish, with browser speech-to-text and Gemini text-to-speech.
- Restricted answers to a fixed property knowledge base. In testing, it declined every question outside that knowledge base instead of making up an answer.
- Covers lead qualification, objection handling, and simulated bookings that recover when a slot fails. Sessions can be paused and resumed.
- A **pytest** suite covers booking logic and conversation scenarios. A dashboard shows aggregate insights across sessions.

Education

Anantrao Pawar College of Engineering and Research Pune, India
Bachelor of Engineering in Artificial Intelligence and Data Science (CGPA: 8.68) *Aug 2022 to May 2026*

Publications

StockSense: AI-Powered Prediction With Real-Time News Intelligence Mar 2026
International Journal of Computer Applications, Vol. 187, No. 94, DOI: 10.5120/ijca2026926631 *Live Demo*

- One of 4 co-authors. Built the full front end and back end, and chose an LSTM over a random forest for long-range memory.
- Live Yahoo Finance data for about 2,000 stocks. Enter a ticker and the LSTM returns a prediction on the dashboard.
- Scores daily news headlines for sentiment, then averages that score with the LSTM score to give a buy, sell, or hold signal.