Gautam Papat

Mumbai, Maharashtra (India)
B.Tech - Artificial Intelligence and Machine Learning
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Walchand College of Engineering, Sangli	8.3	2024 - 2028
Intermediate (XII)	Maharashtra State Board	86.6%	2024
Matriculation (X)	Indian Certificate of Secondary Education	90.7%	2022

WORK EXPERIENCE

XYLofy AI *June 2026 – July 2026*
Data Science Intern *Remote*

Built and evaluated time series forecasting models using SARIMA, Meta Prophet, and XGBoost, optimizing sales predictions across multi-year retail transactions. Applied K-Means clustering to segment product sub-categories by demand volatility, establishing automated inventory stocking and replenishment rules.

TECHNICAL PROJECTS

Parakh - AI-Powered Product Safety Scanner Live Demo | GitHub
Full-Stack GenAI Mobile App (FastAPI, Gen AI/VLM, React + Capacitor)

- Built an India-first packaged-product intelligence app that scans a barcode, package photo, or quick-commerce link (Blinkit/Zepto) to return a personalized verdict on food, supplement, and personal-care labels.
- Verified label claims against statutory FSSAI / ICMR-NIN limits for accurate, health-conscious recommendations.
- Integrated Gemini 2.0 Flash for vision-language label parsing and built a responsive cross-platform frontend using React 18 + TypeScript, Vite, and TailwindCSS, packaged with Capacitor + ML Kit.
- Tech Stack: FastAPI, SQLAlchemy 2.0 (async), PostgreSQL + pgvector, Redis, Alembic, Gemini 2.0 Flash, React 18, TypeScript, Vite,
- TailwindCSS, Capacitor, ML Kit, Docker

eduWin – Multi-Tenant SaaS for Coaching Institutes
Backend-Heavy SaaS Platform (FastAPI, Multi-Tenant SaaS, PostgreSQL) Live Demo | GitHub

- Developed a multi-tenant SaaS backend for coaching classes and tuition institutes covering batches, timetables, attendance, fee collection, and parent nudges.
- Enforced fail-closed tenant isolation using Postgres row-level security (RLS) and built secure JWT auth with rotating, reuse-detecting refresh tokens.
- Tech Stack: Python 3.13, FastAPI, SQLAlchemy 2.0 (async), PostgreSQL 16 (RLS, triggers), Alembic, Redis, APScheduler, Pydantic v2, argon2id, pytest, Docker Compose, GitHub Actions, Sentry

DocLearn – AI-Powered Interactive Learning Platform
Full-Stack RAG Application (GenAI, RAG, VectorDB) Live Demo | GitHub

- Built a full-stack RAG learning platform that teaches FastAPI through interactive, AI-generated lessons and line-by-line code breakdowns.
- Designed a retrieval-augmented pipeline combining a vector database with generative AI to deliver personalized, context-aware explanations.

ACHIEVEMENTS

- Solved 150+ Data Structures & Algorithms problems across multiple competitive programming platforms.
- Certified Data Scientist Associate, Data Camp Credentials
- Certified Data Engineer Associate, Data Camp Credentials
- Executive PG Program in Data Science and Aritificial Intelligence, Imarticus Learning (11 Months Program) Credentials

TECHNICAL SKILLS AND INTERESTS

- **Languages: Python, SQL, HTML, C++**
- **Backend Technologies: FastAPI, SQLAlchemy 2.0 (async), Pydantic v2, Alembic**
- **Databases: PostgreSQL 16 (RLS, triggers), pgvector, Redis**
- **GenAI and ML : Retrieval-Augmented Generation (RAG), Vector Databases, LangChain, LangGraph, Gemini API, Machine Learning, Deep Learning, Transformers, Neural Networks**
- **Cloud & DevOps: Docker**
- **Developer Tools: Git, GitHub, Android Studio, Jupyter Notebook, Anaconda**
- **Soft Skills: Problem Solving, System Design, Ownership, Communication, Team Collaboration, Adaptability**

POSITIONS OF RESPONSIBILITY

Project Lead, ASTRA – WCOE Sangli *2025 - Present*

Led and coordinated multiple student initiatives, acting as a bridge between students and administration to improve campus engagement and operations. Oversaw cross-club collaborations, event execution, and policy discussions impacting the student community.