

Nachiket Yawalkar

+91-8446430089 | ✉ yawalkarnachiket@gmail.com | [🌐 LinkedIn](#) | [🐙 GitHub](#) | [🏆 Kaggle](#) | [📁 Portfolio](#)
Pune, Maharashtra, India

Education

Sant Gadge Baba University

Bachelor of Engineering in Computer Science; CGPA: 9

Amravati, Maharashtra

Aug 2019 – May 2023

Technical Skills

Programming Languages: Python, C++, SQL

ML/AI Frameworks: TensorFlow, Scikit-learn, PyTorch, RAGAS, DeepEval, LangChain, LangGraph, Agentic AI

GenAI & LLM: Prompt Engineering, RAG, Embeddings, Semantic Search, Tool Calling, Intent Extraction

Data & Analytics: Pandas, NumPy, Matplotlib, Statistical Analysis, Time-Series Forecasting,

Databases & Search: FAISS, Pinecone, Qdrant, Chroma, MongoDB, Vector Databases, PostgreSQL

DevOps & Cloud: Docker, Kubernetes, Git, Linux, CI/CD

APIs & Backend: FastAPI, REST APIs, JSON Schema Design, MCP, Django, Data Pipelines

Experience

AI/ML Engineer

Optiex IOT Solutions

Aug 2025 – Present

Pune, India (Remote)

- Architected Agentic AI pipeline converting natural language queries into end-to-end sensor analytics workflows with intent extraction, time-range reasoning, and statistical aggregation for 50+ industrial IoT sensors, cutting analysis time by 85%
- Designed and deployed time-series forecasting + real-time anomaly detection models on production sensor data achieving 95% accuracy, reducing unplanned downtime by 40% and enabling predictive maintenance
- Built API-first FastAPI architecture exposing AI analytics via REST endpoints, enabling seamless integration with internal dashboards across engineering teams

AI/ML Engineer

Dassault Systèmes Solution Labs

Feb 2024 – Jan 2025

Pune, India

- Developed AI surrogate models reducing Abaqus material-property simulation time from 23–30 min to under 3 seconds (99.8% reduction) at 98% prediction accuracy, enabling engineers to evaluate 500+ configurations daily
- Implemented transfer learning and neural architecture optimization achieving 2000x speedup in computational simulations, accelerating R&D cycle time for material selection by 95%
- Integrated ML pipeline directly into Abaqus workflow and validated outputs against physical tests, ensuring production-grade reliability for cross-functional engineering teams

Projects & Freelance

AI Consultant (Freelance)

0xAgile Inc

Mar 2025 – Aug 2025

Remote

- Architected enterprise-grade RAG chatbot processing 500+ confidential documents with 92% contextual accuracy, serving as an intelligent customer support and knowledge-base navigation assistant
- Engineered end-to-end data pipeline with advanced chunking strategies, OpenAI embeddings, and FAISS vector indexing, reducing information retrieval from minutes to milliseconds across 10K+ monthly queries
- Deployed scalable FastAPI inference on Kubernetes supporting 1000+ concurrent users at sub-200ms latency with 99.9% uptime and multi-turn semantic search with document citations

Analytical AI Agent for Sales/ERP

LLM, Agentic AI, tool calling, Python

- Built an AI-powered ERP assistant enabling natural language queries over company sales and customer data.
- Provided customer-wise sales analytics, revenue trends, purchasing behavior analysis, and performance insights.
- Generated actionable recommendations including customer retention opportunities, upselling strategies, and focus areas for sales teams.
- Implemented conversational analytics using LLMs and RAG to deliver instant business insights without manual reporting.

Certifications

Oracle Certified Generative AI Professional – Oracle

Oracle Certified Data Science Professional – Oracle

Machine Learning Specialization – Andrew Ng, Stanford University & DeepLearning.AI

R&D Processes and Programming in Python – Dassault Systèmes

Learning Docker and Kubernetes – LinkedIn Learning