

JAYANT DETHE

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EXPERIENCE

Aivora Solutions

August 2025 – Present

AI Research & Development Engineer (Remote)

Mumbai, India

- Researched and innovated AI-driven solutions aligned with the company's vision to transform business operations.
- Collaborated with the core team on product development, prototyping, and deployment of AI-powered applications.

Suvidha Foundation

April 2025 – May 2025

ML Research Intern (Remote)

Mumbai, India

- Researched AI-driven pedagogy by reviewing 70+ papers; proposed a RAG-based Transformer model for personalized LLM-powered learning.
- Designed a research-backed LLM-based Nutritional chatbot framework focused on food detection and personalized meal recommendations.

PROJECTS

FinVerse 🔗 | [React.js](#), [Express.js](#), [Python](#), [PyMuPDF](#), [RAG](#) | 🐙 [GitHub](#)

April 2025

- Built a GenAI-powered personal finance platform that provides real-time financial guidance through an intelligent chatbot, allowing users to query documents and receive actionable insights.
- Implemented secure Gmail-based authentication and personalized dashboards, enabling contextual financial tracking and improving user trust and engagement.
- Leveraged Google Gemini API, LangChain, and RAG to support document-based QA, literacy quizzes, and contextual interactions, improving financial awareness.

Intervue.AI 🔗 | [LLMs](#), [STT](#), [OpenCV](#), [Python](#), [RAG](#) | 🐙 [GitHub](#)

August 2025

- Developed an AI-powered interview automation tool capable of conducting context-aware technical and aptitude interviews, dynamically adapting questions and generating unbiased evaluation reports.
- Integrated Speech-to-Text (Whisper) pipelines with LLMs for real-time transcription, semantic analysis, and structured scoring across communication, reasoning, and problem-solving skills.
- Designed a RAG-based system for aptitude/technical question generation using curated datasets, reducing recruiter workload and ensuring data-driven, consistent candidate assessments.

GradientIQ 🔗 | [NLP](#), [Transformers](#), [Scikit-learn](#) | 🐙 [GitHub](#)

October 2024

- Developed GradientIQ, a machine learning-powered student performance prediction system that achieved 95% accuracy by analyzing study hours, attendance, parental support, and extracurricular activities.
- Applied Scikit-learn models with feature engineering (normalization, encoding, outlier removal) and NLP-based techniques (TF-IDF, Fuzzy Matching) to process structured and unstructured data, while building interactive visualizations using Matplotlib and Seaborn to deliver clear academic trends and actionable feedback for students.

EDUCATION

Vidyalankar Institute of Technology

2022 – 2026

B.Tech in Information Technology with Specialization in AI/ML (Honors) – CGPA: 8.9

Mumbai, India

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript.
- **AI & Machine Learning:** LLMs, Generative AI, AI Agents, RAG, Model Fine-Tuning (LoRA, PEFT), Model Quantization, Computer Vision, Multimodal AI
- **Web Development:** React.js, Next.js, Node.js, FastAPI, REST APIs, Realtime APIs (Twilio, SIP)
- **Cloud & Deployment:** AWS, Azure, Docker, Vercel, CI/CD (GitHub Actions, Jenkins)
- **Frameworks & Tools:** Hugging Face, LangChain, LlamaIndex, LangGraph, PyTorch, TensorFlow, vLLMs
- **Databases:** MySQL, PostgreSQL, MongoDB.

CERTIFICATIONS

- Generative AI with LangChain & HuggingFace – Udemy
- Business Management Course – IIM Mumbai
- Junior Programmer Pathway – Unity
- TCS iON Career Edge - Young Professional