

# JAYANT DETHE

Mumbai, Maharashtra

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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](#)

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](#)

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](#)

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

- **Languages:** Java, Python, JavaScript.
- **Web Development:** HTML, CSS, Python (Flask), Node.js, Express.js, React.js, Next.js, Tailwind CSS.
- **Deep Learning:** TensorFlow, PyTorch, Keras, Scikit-learn, Hugging Face Transformers, LSTM.
- **Natural Language Processing:** Tokenization, Lemmatization, TF-IDF, Cosine Similarity, PDF processing.
- **Databases:** MySQL, PostgreSQL, MongoDB.
- **Additional Technologies:** Git (Version Control), Docker, Jenkins, AWS, LangChain, LangGraph, AI Agents.

## CERTIFICATIONS

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

## ACHIEVEMENTS

- Selected among the top 8 teams (out of 100+) in the internal college hackathon for Smart India Hackathon (SIH).
- Completed an internship at NGO "Shivprerna Dnyanmrut Probodhini Sanstha" under the "One Year One Village Campaign" initiative.