

JAYANT DETHE

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EXPERIENCE

Suvidha Foundation

04 2025 – 05 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

- Developed a full-stack GenAI-powered personal finance platform that delivers real-time financial guidance through an intelligent chatbot, with secure user authentication via Gmail.
- Leveraged Google Gemini API, LangChain, and RAG architecture to enable document-based QA, personalized insights, contextual interactions, and financial literacy quizzes—improving user literacy by up to 60%.
- Built with React.js frontend and Flask, Express.js backend for scalability; future enhancements include real-time virtual stock market integration with advanced features.

GradientIQ 🗄️ | [NLP](#), [Transformers](#), [TF-IDF](#), [Cosine Similarity](#), [Fuzzy Matching](#), [Scikit-learn](#)

Oct 2024

- Built GradientIO, a Machine Learning-based SGPA prediction platform achieving 95% accuracy by analyzing factors such as study habits, absences, tutoring, and extracurricular involvement.
- Applied Scikit-learn and Pandas for data preprocessing and used Matplotlib and Seaborn to visualize insights—delivering pie charts, bar plots, and comparative academic graphs.
- Generated personalized, actionable feedback to help students optimize study time, seek tutoring, and improve overall academic outcomes.

Marathi LLM | [Transformers](#), [Hugging Face](#), [PyTorch](#)

Apr 2024

- Designed and trained a Marathi Large Language Model from scratch to generate context-aware and fluent native text.
- Curated and translated a 1M+ English corpus into Marathi using multilingual translation pipelines (MarianMT).
- Implemented custom tokenization using Byte-Level BPE to handle complex Devanagari script effectively.
- Used Hugging Face Trainer API and PyTorch for efficient masked language model (MLM) training on GPU.
- Achieved high-quality generative outputs for use cases like storytelling, chatbot responses, and content synthesis.

EDUCATION

Vidyalankar Institute of Technology

2022 – 2026

B.Tech in Information Technology with Specialization in AIML(Honors) – CGPA: 8.9

Mumbai, India

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript

Web Development: HTML, CSS, Python (Flask), React.js, Tailwind CSS

Machine Learning & NLP: TensorFlow, PyTorch, Keras, Scikit-learn, Hugging Face Transformers, LSTM, Tokenization, Lemmatization, TF-IDF

Tools & Platforms: Git, Docker, Jenkins, AWS, PyMuPDF, PyPDF2, SQL, Visual Studio Code

CERTIFICATIONS

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

ACHIEVEMENTS//EXTRACURRICULARS

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