

# Rajat Disawal

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Mumbai, Maharashtra - 400074, India

## OBJECTIVE

Exploring the brilliant world of Artificial Intelligence and using it to develop new applications and solutions to existing problems. Leading groups to wins both in work and life. Implementing new research papers and advancing in various fast growing networks and peers. Finding excited entrepreneurs to collaborate with and learn.




## EXPERIENCE


- **Neuraquill** [[neuraquill.com](https://neuraquill.com)] September 2024 - Present  
AI LLM Engineer Mumbai, India
  - Setup reverse proxy and process management using NGINX and Supervisorctl in a secure private server.
  - Curated and deployed a working Stock Market Trader Bot using Upstox APIs on a private VPS.
  - Developed a backend for a custom AI integrated NextJS-UI components library in python.
  - Implemented memory management techniques from a research paper, MemGPT, optimizing contextual token generation.
  - Constructed a custom Chain-Of-Thought pipeline for a LLM alongside context understanding.
- **Vivekanand Education Society's Institute of Technology** [[vesit.ves.ac.in](https://vesit.ves.ac.in)] April 2025 - Present  
AI LLM Engineer Mumbai, India
  - Implemented various ML algorithms for predicting circumference data from an images dataset with an average error of 3.8mm
  - Played with structured and unstructured data implementing Deep Neural Networks and fusion models for image processing.
  - Played with 3D reconstruction of models from images as an attempt for measuring circumference of arm,
- **CRITSO** [[critso.com](https://critso.com)] December 2024 - February 2025  
Software Development Intern Mumbai, India
  - Developed the complete website for the company from scratch using NextJS + TailwindCSS.
  - Constructed a niche-specific web application involving granular redux definitions for dynamic components.
  - Optimized the redux tabs for handling 100+ API requests at once.

## EDUCATION

- **Vivekanand Education Society's Institute of Technology** 2022 - 2026  
B. Tech. Artificial Intelligence and Data Science Mumbai, India
  - CGPA: 7.7
- **Kalidas Montessori Sr. Sec. School** 2022  
12th Ujjain, India
  - Grade: 82.6%

## PROJECTS

- **Github Coding Agent Assistant** July 2025  
Tools: Langchain, Github APIs, React, unidiff, linter 
  - Innovated a custom AI agent with a budget constraint using a Langchain base class.
  - Curated multiple custom tools and functions with access to Github repositories for exploration and manipulation using a bare model.
  - Wrote down special prompts and scenarios to ensure proper and streamlined model assembly and tools interaction.
- **Autonomous Procurement Agent** July 2025  
Tools: Langchain, Python, Railway, Redis 
  - Designed a variety of tools for text parsing and converting natural language into database queries.
  - Setup a Redis database for chat memory history and context preserving.
  - Devised a proper agentic structure and pipeline for handling all sorts of user queries with graceful error handling.
- **CRITSO: The official website of CRITSO** December 2024 - January 2025  
Tools: NextJS, TailwindCSS, Shadcn/UI, TypeScript and JSON 
  - Created a multi-page website with transition animations between pages using framer-motion.

- Implemented responsiveness using breakpoints and maintained overall quality of code.
- Experimented with various hover effects creating professional components like carousels, sliders, cards, sidebars, etc.
- **DOJ: Chatbot for the website of Department of Justice** August 2024 - September 2024  
*Tools: PyTorch, DSPy, UnSloth, Transformers, Django and Flask API* 
  - Developed a custom Knowledge Graph for implementing a vector embedding.
  - Implemented QLoRA SFT method to train the Llama3.1 8B model using Unsloth.
  - Setup a RAG to work with a KB full of website scraped data.
  - Deployed the model via a Flask API in a NGROK tunnel on Google Collab.


## SKILLS

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- **Programming Languages:** Python, TypeScript, JavaScript, Java, C, MySQL, PostgreSQL
- **Frameworks:** PyTorch, Tensorflow, Transformers, NodeJS, ExpressJS
- **Database Systems:** Supabase, MongoDB, SQLite, MS SQL Server
- **Data Science & Machine Learning:** Pandas, Numpy, Axolotl, DSPy, Unsloth
- **Soft Skills:** Leadership, Persuasive Speaking, Critical Thinking, Creative Writing
- **Hobbies:** Singing, Guitar, Piano, Travel


## LEADERSHIP EXPERIENCE

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- **Lawful Llamas Team Leader** August 2024  
*Vivekanand Education Society's Institute of Technology* 
  - Designed a work designation for my team of 6.
  - Scheduled meetings and lectures to teach about our project.
  - Properly delegated tasks on the basis of member skill.
  - Skills Gained: Objective-based working, Team Growing, Idea Sharing

## VOLUNTEER EXPERIENCE

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- **Content Writing Internship** October 2023 - January 2024  
*First Contact* 
  - Developing SEO content for the website via blogs, comments in posts, etc.
  - Growing people skills while talking to various out of community people.
  - Skills Gained: Idea delivery, Conversation, Business Marketing

## CERTIFICATIONS

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- **Nvidia's Data Parallelism** December 2024
- **Nvidia's AI for Predictive Maintenance** October 2024
- **Nvidia's AI for Anomaly Detection** September 2024
- **Nvidia's Fundamentals of Deep Learning** September 2024
- **Oracle's Generative AI Course** May 2024

## ADDITIONAL INFORMATION

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- Languages: English (Fluent), Hindi (Fluent), Portuguese (Learning)
- Interests: Talking, Meeting new people, Debating, Discussing, Working out of a comfort zone, Puzzle solving