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

- **CRITSO [critso.com]**   *December 2024 - Present*
  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.

- **Neuraquill [neuraquill.org]**   *September 2024 - Present*
  AI LLM Engineer   Mumbai, India
  - 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.

- **The Plasma [theplasma.tech]**   *September 2024 - Present*
  Chief Technology Officer   Mumbai, India
  - Led my team properly delegating objectives on skill level basis.
  - Developed a custom RAG pipeline along with autoprompting techniques using DSPy.
  - Performed Cosine similarity to overpower the Gemini LLM by 233%.

EDUCATION

- **Vivekanand Education Society's Institute of Technology**   *2022 - 2026*
  B. Tech. Artificial Intelligence and Data Science   Mumbai, India
  - GPA: 9.73

- **Kalidas Montessori Sr. Sec. School**   *2022*
  12th   Ujjain, India
  - Grade: 82.6%

PROJECTS

- **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.

- **DYcare: Nurse Booking App in Flutter**   *November 2024 - January 2025*
  Tools:Flutter, Hono, Supabase, TypeScript and JSON   []
  - Created a professional mobile application in Flutter and integrated it with a backend in Hono.
  - Used dynamic widgets and cards while maintaining a clean code.
  - Abided by professional working methodologies and tracking systems like Trello and Kanban boards.

- **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

- **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

- **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

- **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

- **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

- Languages: English (Fluent), Hindi (Fluent), Portuguese (Learning)

- Interests: Talking, Meeting new people, Debating, Discussing, Working out of a comfort zone, Puzzle solving