

DIVJOT SINGH MANCHANDA

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EXPERIENCE

IIT Madras, CAMS IIT-M Fintech Innovation Lab

Research Intern

Chennai, Tamil Nadu

June 2024 – August 2024

- Conducted feasibility analysis across multiple AI-driven financial models to assess LLM integration in fintech workflows.
- Fine-tuned a RAG-based LLM trained on financial datasets with web-search capabilities, improving retrieval precision by 30%.

Renault Nissan

Technical Intern

Chennai, Tamil Nadu

September 2024 – November 2024

- Engineered an algorithm evaluating 200+ vendors on pricing, lead time, MOQ, and quality, reducing decision-making time by 60%.
- Developed a chatbot for structured access to vendor analytics, cutting manual lookup time by 40%.

FlowNow

Technical Intern

Berkeley, California

March 2025 – June 2025

- Designed an **agentic AI system** generating context-aware questions from user-submitted books to assess comprehension.
- Modeled user attention spans via behavioral metrics, providing real-time feedback and engagement analytics.
- Integrated a Tawk.to-powered support agent, reducing onboarding response times by 35%.

EDUCATION

SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu

September 2022 – June 2026 (Expected)

Bachelor of Technology in **Artificial Intelligence**

CGPA: 8.4/10

Relevant Coursework: Neural Networks and Machine Learning, Deep Learning Techniques, Design in Artificial Intelligence Products, Inferential Statistics and Predictive Analytics, Advanced Calculus, Image and Video Processing, Reinforcement Learning.

University of California, Berkeley, Berkeley, California

January 2025 – May 2025

Semester Abroad Program – SCET Startup Semester

GPA: 4.0/4.0

Courses: Deep Learning for Visual Data, Future of Technology (*Designing Next-Generation Technologies*), Amazoogole (*AI and the Modern Data-Driven Business Model*), Challenge Lab (*Designing Startups to Transform Society*), A. Richard Newton Lecture Series.

PROJECTS

Youtrition

Project Link: <https://github.com/djsmanchanda/Youtrition>

UC Berkeley, California

March 2025 – May 2025

- Developed an AI-powered meal recommendation system using the Gemini API to suggest recipes based on users' dietary restrictions, cuisine preferences, religious beliefs, and daily caloric and protein needs.
- Integrated a fridge-vision module using YOLO, SAM, and Gemini to identify ingredients from uploaded photos and recommend suitable recipes.
- Built an interactive Next.js dashboard enabling real-time personalization and visual meal planning for diverse dietary profiles.

Reflection (Llama Stack Hackathon)

Project Link: <https://github.com/djsmanchanda/Reflection>

Berkeley, California

May 2025 – June 2025

- Built an agentic AI assistant parsing emails, calendars, and chats to autonomously manage scheduling and correspondence.
- Integrated Qdrant with Gemini embeddings to store contextual memory, enabling personalized email drafting based on tone and style.
- Allowed users to review, reprompt, or directly send generated drafts, ensuring transparency and control in communication.

Vogue Fusion (PULSE Hackathon)

Project Link: https://github.com/djsmanchanda/VogueFusion_Pulse

IIT Bombay

November 2024 – December 2024

- Secured **2nd place** among 500 teams at IIT Bombay's PULSE Hackathon, earning INR 1L in prize money.
- Created ComfyUI pipelines leveraging SDXL and custom LoRAs to automate design workflows and reduce iteration time by 50%.
- Designed a genetic algorithm predicting dye costs within a 7% margin of error for Aditya Birla Group's fashion lines.

MirrorBot

Project Link: <https://github.com/djsmanchanda/MirrorBot>

Intel Unnati AI Labs

August 2024 – December 2024

- Processed thousands of Instagram and WhatsApp messages to train a model replicating user conversational tone.
- Fine-tuned LLaMA 3.2 (3B) on curated datasets to achieve 92% stylistic similarity in conversational responses.

SKILLS

- Programming Languages:** Python, C, C++, CUDA, PowerShell, Bash
- Frameworks & Libraries:** PyTorch, TensorFlow, Keras, Hugging Face, LangChain, Flask, Streamlit, React, Next.js, ComfyUI
- Tools and Platforms:** Git, Docker, AWS

ACHIEVEMENTS

Won 8+ hackathons and competitions with cumulative cash prizes exceeding **INR 3,00,000 and USD 1,000.**

- **1st place** – Samsung Prism Hackathon 2025 December 2025
- **1st place** – HackStreet 2.0, SRM, Chennai March 2024
- **2nd place** – Llama Stack Challenge, UC Berkeley, California April 2025
- **2nd place** – PULSE Hackathon, Techfest IIT Bombay December 2024
- **3rd place** – Google Cloud Hacknight, San Francisco May 2025
- **3rd place** – Synapses 2.0, PES University, Bangalore May 2024

Line Follower Competitions:

- Engineered a high-speed, high-precision line follower robot using a custom PCB and PID control algorithm.
- Ranked **1st** at BITS Pilani, **2nd** at Anna University, and **3rd** at Kongu Engineering College, Erode.

VOLUNTEERING – Student Clubs

Data Science CommunityMachine Learning / Research Supervisor

Mentored peers in applied ML research and collaborated on cross-domain AI projects.

SRM Team RoboconSystem Integration and Electronics Engineer

Gained 1,000+ hours of hands-on experience in control systems, embedded coding, and robot integration.

CINTEL’s Next Gen AIDomain Head – Robotics and Generative AI

Led robotics and generative AI initiatives, mentoring 25 students and organizing hackathons with 1,000+ participants.