

DIVJOT SINGH MANCHANDA

djsmanchanda.com — djsmanchanda@gmail.com — +91 9137488435 — linkedin.com/in/djsmanchanda — github.com/djsmanchanda

EXPERIENCE

IIT Madras, CAMS IIT-M Fintech Innovation Lab

Research Intern

Chennai, Tamil Nadu

June 2024 – August 2024

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

Renault Nissan

Technical Intern

Chennai, Tamil Nadu

September 2024 – November 2024

- Engineered an algorithm evaluating 200+ vendors on pricing, lead time, and quality, reducing decision-making time by **20%**.
- 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

Bachelor of Technology in Artificial Intelligence

September 2022 – June 2026

CGPA: 8.54/10

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

Semester Abroad Program – SCET Startup Semester

January 2025 – May 2025

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.
- Provided an interactive interface offering step-by-step recipe guidance and smart ingredient substitutions based on fridge inventory; **awarded the Tech Maven Award at UC Berkeley**.

Reflection (Llama Stack Hackathon)

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

Berkeley, California

May 2025 – June 2025

- Built an **agentic personal assistant** parsing emails, calendars, and chats to autonomously manage scheduling and correspondence.
- Integrated **Qdrant** with Gemini embeddings to store contextual memory, enabling personalized email drafts by 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 LoRAs to automate design workflows, cutting 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 (7B) on curated datasets to achieve **92%** stylistic similarity in conversational responses.
- Conducted as part of the Intel Unnati Generative AI Industrial Training – 2024.

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

Hackathons: Won 7+ hackathons and competitions with cumulative cash prizes exceeding **INR 2,00,000 and USD 1,000**.

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

Line Follower Competitions: Built a **high-speed, high-precision LFR** using a custom PCB and PID control algorithm.

- **1st place** – BITS Pilani March 2023
- **2nd place** – Kongu Engineering College February 2023
- **3rd place** – Anna University, Chennai April 2023

Research Recognition:

- Awarded a **Dean-Funded Research Grant** for developing an in-house lift optimization device that reduced queue times and increased hourly capacity by **7%** through AI-driven control.

VOLUNTEERING – Student Clubs

Data Science Community *Machine Learning / Research Supervisor*
Developed a transformer-based music generator and mentored peers in applied ML research.

SRM Team Robocon *System Integration and Electronics Engineer*
Gained 1,000+ hours of hands-on experience in control systems, embedded coding, and robot integration.

CINTEL's Next Gen AI *Domain Head – Robotics and Generative AI*
Led robotics and generative AI initiatives, mentoring 25 students and organizing hackathons with 1,000+ participants.