

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

- Performed **feasibility analysis** to explore the **integration of AI in financial modeling** and fintech solutions
- Finetuned a RAG-based LLM on financial Data with web search capabilities.

Renault Nissan

Technical Intern

Chennai, Tamil Nadu

September 2024 - November 2024

- Developed an **algorithm to evaluate past part vendors** based on pricing, lead time, MOQ, quality, defect rates and other variables, enabling data-driven reordering decisions and **improving time to make decisions by 60%**
- Designed a **chatbot** to simplify access to the vendor analysis data using structured outputs, improving decision-making efficiency.

EDUCATION

SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu

Enrolled: Sept. 2022 — Expected: June 2026

Bachelor's in **Artificial Intelligence**

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

PROJECTS

Vogue Fusion (PULSE Hackathon)

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

IIT Bombay

November - December 2024

- Secured **2nd** place out of 500 teams at the PULSE **Hackathon, IIT Bombay**, winning INR 1L in prize money.
- Developed an algorithm using Pinscape API for seasonal trend analysis for **Aditya Birla Group's** fast-fashion lines.
- Built **ComfyUI** workflows using **SDXL** and custom **LORAs** to automate design processes and reduce time-to-market.
- Designed a custom **genetic algorithm** to generate reproducible dye mixtures and predict printing costs within **7% MOE**.

MirrorBot

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

SRM Kattankulathur

August 2024 - December 2024

- Implemented data preprocessing of Users' past **Instagram** and **WhatsApp** chat histories to ensure relevant content extraction.
- Fine-tuned **LLaMA 3.2 (3B)** on the curated dataset to replicate the creator's messaging style and natural conversational flow.

SKILLS

- Programming Languages:** Python, C, C++, **CUDA**, PowerShell, Bash
- Frameworks:** PyTorch, TensorFlow, Keras, Hugging Face, ComfyUI, LangChain, Flask, Streamlit
- Tools and Platforms:** Git, Weights and Biases, Docker, AWS EC2, AWS S3, AWS Lambda

ACHIEVEMENTS

Won **multiple** hackathons and competitions with cumulative cash prizes exceeding **INR 2,00,000**

- First rank** at HackStreet 2.0, SRM, Chennai March 2024
- Second rank** in Innofusion'24, SRM, Chennai February 2024
- Third rank** in Synapses 2.0, National Level Hackathon, PES University, Bangalore May 2024

Line Follower Competitions:

- Built a **High Speed, High Precision** Line Follower Robot through a custom PCB and a new PID control algorithm.
- Ranked **1st** place at **BITS Pilani**, **2nd** place at Anna University, and **3rd** place at Kongu Engineering College, Erode.

VOLUNTEERING - Student Clubs

DATA SCIENCE COMMUNITY

Machine Learning / Research Supervisor

Chennai, Tamil Nadu

October 2022 - Ongoing

- Acquired hands-on experience in advanced AI, ML, DL, and Data Science through multiple cross-domain projects.
- Collaborated with students from diverse backgrounds to develop cutting-edge AI solutions, including a Rhythm Generator.

CINTEL's NEXT GEN AI

Domain Head, Robotics and Generative AI

Chennai, Tamil Nadu

January 2023 – September 2024

- Mentored and lectured a team of 25 students at making robots incorporating the use of AI
- Organized a large multi-domain hackathon attended by over a 1000 students.