

DIVYANSH AGARWAL

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EDUCATION

Master of Science in Computer Science

New York University, Tandon School of Engineering

May 2025

Grade: **3.76/4**

Coursework: Computer Vision, AI for Games, ML, DL, Big Data, Blockchain, Cloud Computing, Information Visualization

B.Tech Computer Science and Engineering and Business Systems

VIT University, Vellore

July 2023

Grade: **8.4/10**

Coursework: Computational Statistics, Data Science and Statistical Modeling, Deep Learning, Business, Design Thinking

SKILLS

LLMs PyTorch, HuggingFace, LlamaIndex, RAG, Unsloth, PEFT, SFT, LoRA, Vector DBs, FastMCP, LangGraph

AI/ML Time Series, Autonomous Systems, Experimentation Pipelines, CNNs/RNNs, Computer Vision, TensorFlow

Data Science Pandas, NumPy, Matplotlib, Seaborn, Data Engineering/Visualization, ETL, Statistical Modeling, PostHog

Tools Python, SQL, Linux, C++, AWS, Docker, Git, Github Actions, PRs, SSH, Next.js, React, Bun, Augment

EXPERIENCE

Full Stack Engineer

AdsGency AI

Feb 2026

San Francisco, California

- Built an AI-assisted natural language querying system that generated SQL via DuckDB across multiple data sources.
- Integrated diverse data sources into a knowledge base to enable geographic, temporal, and category-based insights.
- Developed a ranking and scoring system to optimize data selection for audio, image and video ad generation workflows.

AI Researcher

Neuroinformatics Lab

October 2024 - Feb 2026

New York University, New York

- **Achieved 92% F1 score** detecting fast/slow neural events using LSTM and U-Net models with noise suppression.
- Validated results with clustering, PCA, and embedding analysis; deployed an interactive React app on [Vercel](#).
- Processed large-scale noisy neural data using HPC, Slurm, batch pipelines, and GPU optimization.

Data Analyst

Adeptmind

February 2023 – July 2023

Remote, Toronto, Canada

- Scaled landing page generation from **10K to 80K pages** through automation, driving a **20% monthly traffic increase**.
- Generated SEO-focused landing page content using **LLMs** and prompt engineering to improve search visibility and rankings.
- Built analytics reports for **19 clients** and monitored SEO performance to identify ranking improvement opportunities.
- Developed a **Streamlit** dashboard for monitoring, alerts, and notifications for internal stakeholders.

Computer Vision Intern

Enord

November 2022 - February 2023

New Delhi, India

- Developed lightweight Depth Estimation models using stereo cameras and PyTorch/CUDA (C++), optimized for efficient, real-time deployment on resource-constrained embedded systems like drones, ensuring robust performance.

Head Of Autonomous Department

Student Team OJAS

September 2020 - February 2022

VIT Vellore, India

- Led the autonomous department to Formula Student Hungary qualification as one of the first Indian teams, working across perception, planning (**RRT**), and control (**MATLAB**) and improving **YOLO**-based object detection to **92% accuracy**.

PROJECTS

Concurrent Multi-User RAG System Developed a secure, concurrent, multi-user Retrieval-Augmented Generation (RAG) system with a local-first architecture, a **FastAPI** backend, **Celery** workers for asynchronous job processing, and real-time updates via WebSockets. Implemented robust user isolation and data privacy. [Code](#).

Social Media Automation Built a serverless AWS pipeline to automate image posting using Google Photos, AWS Rekognition, OpenSearch, and AI-generated captions, leveraging Lambda, Lex, SQS, S3, and API Gateway for scalable content creation.

In-Context Learning for Pokemon Showdown Built an experimental system to evaluate in-context learning and meta-learning behavior in LLMs through gameplay on Pokemon Showdown under varying contextual setups.

AI-Enhanced Teleprompter: Connie Built a web application/extension for media and content creators to track content, access live audience metrics, and receive real-time audio (**TTS**) feedback on speech, tone, and pitch to improve engagement. [Code](#).