

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

July 2023

VIT University, Vellore

Grade: **8.4/10**

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

SKILLS

LLMs	PyTorch, TensorFlow, Hugging Face, LlamaIndex, RAG, UnSloth, PEFT, SFT, LoRA, Vector Database
AI/ML	Time Series Analysis, Autonomous Systems, Experimentation Pipelines, CNNs/RNNs, Computer Vision
Data Science	Pandas, NumPy, Matplotlib, Seaborn, Data Engineering/Visualization, ETL, Statistical Modelling
Programming/Tools	Python, SQL, Linux, C++, AWS, GCP, Docker, Git, Github Actions, SSH, Next/React, Bun

EXPERIENCE

Research Assistant

Neuroinformatics Lab

October 2024 - Current

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 through clustering, PCA, and embedding analysis; built interactive React.js **Live App** on Vercel.
- Processed large-scale noisy neural data efficiently using HPC, slurm jobs, batch computing and GPU Optimization.

Data Analyst

Adeptmind

February 2023 - July 2023

(Remote) Toronto, Canada

- Delivered growth from **10K to 80K landing pages**, with monthly **traffic increment of 20%**, employing automation.
- Created SEO rich content for all the pages using LLMs and prompt engineering, increasing traffic and ranking per page.
- **Reported for 19 clients** using Analytical tools and monitored SEO performance to improve search ranks.
- Created an monitoring, alerts and notification dashboard using Streamlit for all the 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

- Achieved First time qualifiers from India in Formula Student Hungary as the department head.
- Managed multiple projects simultaneously, e.g. Perception, Planning(RRT Algorithm), and Control(Matlab).
- Focused on the YOLO family of algorithms for object detection and **generated 92% accuracy**, testing simulation in ROS

PROJECTS

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

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

AI Enhanced Teleprompter: Connie A web application/extension for streamers/media/content creators to with live audio to track there content, and get live audience metrics and real time feedback on speech, tone to increase. [Code Repository](#).

In-Context Learning with LLMs to Pokemon Showdown to test meta-learning of LLM and play Pokemon Showdown based on different contextual learnings.

PUBLICATIONS — CERTIFICATIONS

Forecasting Geo Location of COVID-19 Herd Used models like ARIMA, LSTM and Prophet(Meta).

Professional IBM Data Science Certificate of 9 Courses including a Capstone project. Analysis of various formats of data and visualization of the same. [Link To Certificate](#) [Link To Certification in R Lang](#)