

# 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, 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, R, SQL, Bash, Linux, C++, AWS, GCP, Docker, Git, SSH, HPC, Next/React                   |

## 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 and deep learning pipelines.

### 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 content for all the pages using LLMs and prompt engineering, which increased average traffic per page.
- **Reported for 19 clients** using Analytical tools and monitored SEO performance to improve search ranks.
- Created a dashboard using Streamlit library 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, 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, and Claude 3 for AI captions, leveraging Lambda, Cognito, Lex, SQS, S3, API Gateway, Secrets Manager for scalable content creation.

**International Trade Statistics** Testing and producing various network data visualization for analysis of trade data like Network Radial Map, Geo-Spatial Map and Matrix Map. [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](#)