

# DIVYANSH AGARWAL

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## EDUCATION

<b>Master of Science in Computer Science</b>	May 2025
New York University, Tandon School of Engineering	Grade: <b>3.76/4</b>
Coursework: Computer Vision, AI for Games, ML, DL, Big Data, Blockchain, Cloud Computing, Information Visualization	
<b>B.Tech Computer Science and Engineering and Business Systems</b>	July 2023
VIT University, Vellore	Grade: <b>8.4/10</b>
Coursework: Computational Statistics, Data Science and Statistical Modeling, Deep Learning, Business, Design Thinking	

## SKILLS

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

## EXPERIENCE

<b>Research Assistant</b>	October 2024 - Current
Neuroinformatics Lab	<i>New York University, New York</i>
• Achieved <b>92% F1 score</b> 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 <a href="#">Live App</a> on Vercel.	
• Processed large-scale noisy neural data efficiently using HPC and deep learning pipelines.	
<b>Data Analyst</b>	February 2023 - July 2023
Adeptmind	<i>(Remote)Toronto, Canada</i>
• Delivered growth from <b>10K to 80K landing pages</b> , with monthly <b>traffic increment of 20%</b> , employing automation.	
• Created content for all the pages using LLMs and prompt engineering, which increased average traffic per page.	
• <b>Reported for 19 clients</b> using Analytical tools and monitored SEO performance to improve search ranks.	
• Created a dashboard using Streamlit library for all the internal stakeholders.	
<b>Computer Vision Intern</b>	November 2022 - February 2023
Enord	<i>New Delhi, India</i>
• 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.	
<b>Head Of Autonomous Department</b>	September 2020 - February 2022
Student Team OJAS	<i>VIT Vellore, India</i>
• 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 <b>generated 92% accuracy</b> , 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](#)