

DIVYANSH AGARWAL

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EDUCATION

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

SKILLS

Technical Skills	Machine & Deep Learning, HPC, Data Analysis & Visualization, Computer Vision, LLMs
Soft Skills — PyMetrics	Leadership, Active Listening, Strong Work Ethic, Strategic Decision-Making
Programming Languages	Python, SQL, R, TensorFlow, PyTorch, AWS, Google/Adobe Analytics, Excel, JIRA

EXPERIENCE

Research Assistant Neuroinformatics Lab	October 2024 - Current <i>New York University, New York</i>
<ul style="list-style-type: none">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 <i>(Remote)Toronto, Canada</i>
<ul style="list-style-type: none">Delivered growth from 10K to 80K landing pages, with monthly traffic increment of 20%.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 <i>New Delhi, India</i>
<ul style="list-style-type: none">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 <i>VIT Vellore, India</i>
<ul style="list-style-type: none">Achieved First time qualifiers from India in Formula Student Hungary as the department head.Managed multiple projects simultaneously, e.g. Perception, Planning, and Control.Focused on the YOLO family of algorithms for object detection and generated 92% accuracy.	

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](#)