

ARYAN CHAUHAN

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Education

Delhi Technical Campus(Aff. GGSIPU)

Bachelor of Technology in Computer Science, **CGPA-8.9/10**

Dec. 2021 – June 2025

Greater Noida, Uttar Pradesh

Technical Skills

Languages: Python, SQL, C/C++, HTML/CSS, JavaScript,

Libraries & Frameworks: PyTorch, TensorFlow/Keras, OpenCV, Scikit-Learn, LangChain, Flask, Django, Fast API

Tools & Platform: Git/GitHub, MySQL, HuggingFace, Kaggle, Azure, AWS Sagemaker, PowerBI/Tableau

Data Science & AI : Machine Learning, Deep Learning, NLP, Generative AI, Model Optimization, RAG Evaluation

Experience

Aditya Birla Fashion and Retail Ltd.- Jaypore

Feb 2025 – May 2025

Business Analyst Intern

Gurugram ,Haryana

- Monitored real-time **Power BI** and **Adobe Analytics** dashboards, tracked key **KPIs** to generate actionable insights
- Transformed complex datasets into actionable insights, improving operational efficiency by **25%**.
- Optimized sales strategies through KPI analysis, driving a **15% increase** in quarterly gross and net sales

IBM

Nov 2020 – Dec 2020

AI Intern

Gurugram ,Haryana

- Researched and implemented AI assistant in legal proceedings, improving data ingestion
- Created a law assistant using **IBM Watson's NLU** with a **text-to-speech** module for voice assistance
- Conducted an extensive research and evaluation, increasing test coverage and reducing defects by **15%**

Projects

GPT-2 Architecture | *PyTorch, Hugging Face Transformers, NumPy, Tokenization, Python, Attention Mechanism,*

- Built a GPT-2 style LLM from scratch with **12 transformer layers**, **12 self-attention heads**, **768 hidden size**, and **125M+ parameters**, trained on a cleaned corpus of **1M tokens**.
- Developed a complete data pipeline, tokenized **500K+** words using **Byte Pair encoding** and GPT-base-uncased, generating input sequences truncated to **512 tokens** per batch.
- Designed transformer components including **multi-head attention**, **positional embeddings**, **layer normalization**, and **auto-regressive** decoding, achieving coherent text generation.

Pro-design Generation | *Stable Diffusion, Olla-ma, Hugging-face, Prompt Engineering, Flask*

- Built a product design image generation model using **Stable diffusion** and **Olla-ma** model for prompt tuning.
- Deployed a real-time ad generation platform with **Flask**, delivering **5 sec** inference time and supporting scalable, user-driven customization.
- Cut manual design effort by **85%** and boosted brand alignment by **74%** using **CLIP**-based evaluation and vision-language feedback loops.

PIXVERSE | *PyTorch, Flask, Streamlit, OpenCV, HTML, CSS, JavaScript*

- Performed testing over **100+ images**, achieving a **30%** improvement in quality by leveraging both Caffe and PyTorch models.
- Created an AI-powered tool to colorize black-and-white images with up to **85%** accuracy, enhancing visual appeal and utility.
- Designed a user-friendly web interface using **Flask** allowing users to upload, process, and download images seamlessly via browser.

Achievements / Extracurricular

- * Bagged **AIR 15** among **1500 +** participants in the **CBSE-IBM AI Challenge 2020**
- * Solved **100+** Leetcode problems and achieved Hacker-rank **4 Star** rating in SQL
- * Participated in the **Amazon ML challenge** developing models for feature/entity extraction from images using **EasyOCR** and trained machine learning models on a dataset of **200,000** images.
- * Campus ambassador E-CELL IIT Bombay (2022-23) GeeksforGeeks(2023-24)