

ATULIT GAUR

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Education

MAIT, GGSIPU, New Delhi, India – B.Tech in Computer Science

November 2022 - July 2026

Bachelor of Technology, Computer Science

Industrial Experience

Xander-Corp, India

June 2024 - Present

Founder

- Developed a platform that allows users to train and deploy machine learning models without coding, supporting classification, regression, and image analysis tasks.
- Led the development of a Machine learning platform designed for users without programming experience; oversaw product design, backend infrastructure, and model deployment pipelines.

Dr Aarogya, India

June 2024 - Present

Full Stack App Developer

- Built a cross-platform medical record app using React Native and Nest.js enabling secure data storage and doctor-patient communication.

Sensegrass, India

April 2024 - July 2024

ML Engineer

- Developed chatbots using Rasa and fine-tuned LLMs handling 1,000+ daily interactions; built full-stack components with NextJS, React Native, and Node.js.

iDesign.Market, India

June 2023 - November 2023

Frontend developer

- Developed responsive UIs and integrated REST APIs, improving frontend-backend interaction and increasing system performance. Improved UI/UX with clean layouts and responsive design, leading to a 30% boost in user engagement.

Projects

Xander

- Nexus Labs is a desktop native application built using **ElectronJS, Python and Tensorflow** which is a **no-code AutoML** platform supporting training and deploying of models.
- Tasks like Classification, Image Classification, Anomaly Detection & Regression are available along with this a user is allowed to select, view & download datasets for model training from within the application itself.

RAG-based Research Assistant

- Built an end-to-end RAG system using **FastAPI, ChromaDB, Sentence-Transformers**, and local LLaMA3-7B via Ollama, with a ReactJS frontend. Enabled semantic PDF search and LLM response generation with context-aware answering.

PQD Classification Research Paper

- Devised and implemented a new technique for **PQD Classification** into 16 different types like Sinusoidal, Harmonic, Sag, Swell, Oscillation etc. It's been submitted in **IEEE** for review, awaiting publication.
- Combined **Efficient-net** with **Cross Attention** with **BiLSTM** to achieve an accuracy of 98%.

Neural Networks From Scratch

- Built neural networks like **LSTM, CNN and RNN** using only NumPy. Furthermore, implemented **Multi-Head Latent Attention**, and **Stable Diffusion** from scratch using PyTorch. Also wrote easy-to-understand blogs explaining how they work and how to build them.

Achievements

Finalist, DPBH Hackathon 2024 – Created browser extension detecting dark patterns in e-commerce sites

Zonalist, IIT Bombay Edureka Hackathon – Recognized for innovative AutoML tool (**Xander**).

Selected, AWS Activate Founders Program – Awarded \$1,000 AWS credits for Xander

Skills

Languages: C++, Python, JavaScript, Java, C#

Frameworks: ReactJS, Node.js, Next.js, Nest.js, Django, React Native, TensorFlow, PyTorch, Scikit-learn

Tools: GitHub, AWS, GCP

Concepts: DSA, Deep Learning, NLP, AutoML, LLMs