

Dhruv Gupta

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EDUCATION

Manipal University Jaipur

Sep 2022 - May 2026

Bachelor of Technology in Computer Science and Engineering — **CGPA: 8.06**

Jaipur, India

- **Relevant Coursework:** Data Structures & Algorithms, OOP, DBMS, Software Engineering, Machine Learning

Seth Anandram Jaipuria School

Jun 2020 - Jun 2022

Higher Secondary Education (Class 12) — **Percentage: 89%**

Ghaziabad, India

WORK EXPERIENCE

Oil and Natural Gas Corporation (ONGC)

Jun 2025 - Aug 2025

Summer Intern

Delhi

- Built centralized SAP ABAP dashboard with **HANA DB** for oil well management, automating maintenance logs, creating custom domains and transactions, reducing manual reporting time by **40%** across **5+ departments**.
- Preprocessed 8M+ data points using Python, FAISS, transformers (PyTorch) to build structured datasets, boosting visualization (Pandas, Matplotlib, PowerBI) and enabling faster decisions across **10+ teams**.

PROJECTS

Crave Connect | Python, PostgreSQL, FastAPI, Docker | [Link](#)

Jun 2025 - Present

- Co-developed a containerized **REST API backend** with **FastAPI**, **PostgreSQL (SQLAlchemy)**, and **Docker**, structuring **6+** functional domains, **20+** data models, and **15+** Pydantic schemas using the repository pattern and centralized error handling.
- Integrated **semantic search** and personalized recommendations using **text embeddings + pgvector**, exposing **top-k similarity endpoints** and filters over menu items to enhance discovery relevance.
- Designed **database migrations**, **JWT authentication**, and a **Docker-based** local setup for quick deployment in development environments.

Stock Analysis | Python, Google ADK, FastAPI | [Link](#)

Jun 2025 - Jul 2025

- Developed a **multi-agent NLP-based stock analysis** system integrating data from **5 financial providers**, achieving **87% accuracy** on natural language queries.
- Created specialized agents for **ticker parsing**, **feature extraction**, **sentiment analysis**, and **real-time metric visualization**, reducing query time by **60%**.
- Implemented **intelligent caching**, **rate limiting**, **parallel data fetch**, and **model evaluation metrics** to ensure robust performance.

Eye Gaze Tracking | Python, MediaPipe, OpenCV, Deep Learning | [Link](#)

Jan 2025 - May 2025

- Collaborated with a team to develop a real-time **computer vision** pipeline using **MediaPipe** for face mesh detection and **OpenCV** for eye segmentation, achieving **80%+ accuracy** at **30 FPS**.
- Trained and fine-tuned **ResNet50** and **EfficientNetB3** models with **transfer learning** and **hyperparameter tuning**, reducing mean errors to **5.3°** and **2.1°**.
- Engineered **pose mapping algorithms** with **NumPy** to convert 2D gaze into accurate 3D spatial coordinates for **HCI applications**.

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript, ABAP, SQL

Web Technologies: HTML5, CSS3, React.js, Tailwind CSS, FastAPI

AI/ML & Data Science: PyTorch, TensorFlow, Scikit-learn, OpenCV, Pandas, NumPy

Databases: PostgreSQL, MySQL, Hana DB, PgVector

Tools & Platforms: Git, GitHub, VS Code, Jupyter Notebook, Docker, SAP

CERTIFICATIONS

IBM — **Generative AI Fundamentals Specialization** (LLMs, Prompt Engineering, AI Ethicst)

Apr 2025

IBM — **Supervised Machine Learning: Regression** (Feature Engineering, Model Training)

Dec 2024

Google — **Foundations of Data Science** (Python, Data Analysis, Visualization, Statistics)

Nov 2024

IBM — **SQL: A Practical Introduction for Querying Databases** (Data Extraction, Joins, Aggregations)

Apr 2024

AWARDS & ACHIEVEMENTS

National Finalist, SAP India's Hackfest — Top 50 from 2000+ entries

Jul 2024

Advanced to **Round 2**, GenSolve Hackathon (Adobe India)

Jun 2024

Qualified for **Round 2**, CodeRush Hackathon (Mettl) — Showcased algorithmic thinking

Jun 2024