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**
- Collaborated with a team of 3 to co-develop a containerized **REST API backend** using **FastAPI**, **PostgreSQL** (**SQLAlchemy**), and **Docker**, structuring **6+** functional domains, **20+** data models, and **15+** Pydantic schemas with the repository pattern and centralized error handling.
- Implemented **semantic search** and personalized recommendations with **text embeddings** + **pgvector**, delivering **top-k similarity endpoints** and advanced filters to improve menu item discovery for end users.
- Co-designed **database migrations**, **JWT authentication**, and a **Docker**-based local setup, enabling quick deployment and streamlined onboarding for new developers.

MUJ Placement Portal | React.js, PostgreSQL, JWT, REST API | **Live**   **Jun 2025 - Aug 2025**
- Collaborated with a team of 2 to develop a full-stack placement management system with **JWT authentication** and **Role Based Access Control**, achieving a 100% login success rate for **500+ users**.
- Co-designed and implemented a responsive frontend using **React.js, Vite, Tailwind CSS** with client-side routing and **Context API** state management, ensuring 90% data integrity.
- Automated bulk processing with **React Dropzone** and XLSX.js, reducing manual data entry by **80%** for **10,000+ placement records**, improving efficiency for administrators.

EcoHive | React.js, JavaScript, HTML5, Tailwind | **Link**   **May 2024 - Aug 2024**
- Co-led a team of 5 in developing a sustainable credit trading platform for **SAP India Hackfest**, achieving a **top 50** finish from **2000+ entries**.
- Collaborated on designing a responsive frontend using **React.js** and **Tailwind CSS** with real-time credit calculation algorithms and an interactive dashboard.
- Worked with backend developers to integrate RESTful APIs, implementing secure user authentication and a credit exchange marketplace for seamless transactions.

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**