

# Dhruv Gupta

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## EDUCATION

<b>Manipal University Jaipur</b> <i>Bachelor of Technology in Computer Science and Engineering</i> — <b>CGPA: 8.06</b>	Sep 2022 - May 2026
• Relevant Coursework: Data Structures & Algorithms, OOP, DBMS, Software Engineering, Machine Learning	Jaipur, India
<b>Seth Anandram Jaipuria School</b> <i>Higher Secondary Education (Class 12)</i> — <b>Percentage: 89%</b>	Jun 2020 - Jun 2022

## WORK EXPERIENCE

<b>Oil and Natural Gas Corporation (ONGC)</b> <i>Summer Intern</i>	Jun 2025 - Aug 2025
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- 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

<b>Crave Connect</b>   Python, PostgreSQL, FastAPI, Docker   <a href="#">Link</a>	Jun 2025 - Present
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- 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.

<b>Stock Analysis</b>   Python, Google ADK, FastAPI   <a href="#">Link</a>	Jun 2025 - Jul 2025
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- 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.

<b>Eye Gaze Tracking</b>   Python, MediaPipe, OpenCV, Deep Learning   <a href="#">Link</a>	Jan 2025 - May 2025
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- 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

<b>IBM</b> — Generative AI Fundamentals Specialization (LLMs, Prompt Engineering, AI Ethicst)	Apr 2025
<b>IBM</b> — Supervised Machine Learning: Regression (Feature Engineering, Model Training)	Dec 2024
<b>Google</b> — Foundations of Data Science (Python, Data Analysis, Visualization, Statistics)	Nov 2024
<b>IBM</b> — 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