



# Devendra Gurjar

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Portfolio GitHub Kaggle LeetCode LinkedIn

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Final-year IIT Jodhpur student with hands-on experience building production ready Ai Agents, web systems and ML research pipelines. Strong in Python, PyTorch, TypeScript and scalable web infra (Next.js, Postgres, AWS). Seeking SDE or AI/ML engineer internship or full time roles.

## Achievements

- Qualified JEE Main & JEE Advanced (came in top 2%)— admitted to IIT Jodhpur.
- Secured Top-500 Rank in a few Kaggle competitions at the time of submission.
- Served as Web & App Dev Head, Prometeo — managed 1,200+ user registrations; led a 6-member dev team.

## Education

### Indian Institute of Technology, Jodhpur

(2022–2026)

- B.S. Chemistry (specialization in Entrepreneurship). **CGPA:** 7.08 (ongoing)

### Relevant coursework

- |                                |                                |                                    |
|--------------------------------|--------------------------------|------------------------------------|
| • Digital Product Management   | • Probability, Statistics & SP | • Design & Analysis of Exp.(R)     |
| • Machine Learning             | • Scientific Computation       | • Money,Banking& Financial Markets |
| • Data Structures & Algorithms | • Marketing Management         | • Generative Ai                    |

## Experience

- **CoinQuest — Web Developer Intern** (May'25 - June'25)
  - Built authoritative real-time game engine (state machine + Socket.io) ensuring deterministic game flow and reliable client sync.
  - Implemented wallet-first authentication(Privy) and Postgres-backed bet/cashout modules for durable state; added session recovery and rate-limit/retry policies.
  - Delivered modular chat features (presence, typing, moderation) and reliability patterns (rate-limit, retries) for concurrent users.
- **UG Research Assistant — Prof. Nil Kamal Hazra Advanced Deep Learning** (June'25 - July'25)
  - Reproduced a published ML-based coarse-graining methodology: generated/preprocessed MD trajectories, extracted structural features, and prepared supervised datasets for training.
  - Implemented training pipelines (Python, PyTorch) to learn coarse-grained forces/potentials and validated results by comparing radial distribution functions and thermodynamic observables between coarse-grained and all-atom systems.
  - Performed model selection, hp tuning, and quantitative evaluation to ensure structural and thermo dynamic consistency.
  - Gained practical experience in dataset curation, trajectory parsing, and scientific code validation.

## Key Projects

( GitHub/ Kaggle )

- **VISION CHATBOT (NLP, LLM, VLM, Generative AI)** (Jan'24 - Aug'24)
  - Main objc. was to develop a chatbot capable of processing diverse inputs and executing predefined actions based on these inputs.
  - Explored various concepts including NLP, Transformers, LLMs, and Generative AI.
  - Delved into various research papers detailing models such as BERT, BART, GPT, VIT, CLIP, BLIP, GAN, Stable Diffusion, DALL-E, Imagen, and more, and have successfully implemented several of these models from scratch.
- **Multi Agent Rag Legal Assistant (Rag, AI Agents, MCP, fssai, spacy)** (Sep'24 - Dec'24)
  - Developed an AI agent for automation and enhancement of legal document analysis and drafting.
  - Integrated Multi-Agent architecture for different task with Fusion-RAG on a database of 1900 case doc to ensure modularity.
  - Obtained an average Rogue-L score of 37.9% and a BLEU-3 score of 27.4% on multiple examples.
- **Smart Traffic Analytics and Prediction Platform (Computer vision, YOLO, fine tuning)** (Sep'24 - Dec'24)
  - Developed a real-time system to analyze live traffic feeds and sensor data for congestion prediction and incident detection.
  - Employed PyTorch with OpenCV for image processing and predictive modeling.
  - Deployed on AWS using PostgreSQL, with a TypeScript dashboard for visualization.
- **Histopathological Cancer Detection (ML/DL, feature engineering, transfer learning)** (Aug'23 - Dec'23)
  - Worked on image classification methods for cancer detection using machine learning and deep learning.
  - Created an end-to-end PyTorch pipeline (custom CNN & ResNet50 fine-tuning, transfer learning, efficient Dataset/Loader, augmentation, check-pointing). Trained classical, deep models (SVM, RF, CNN) and some boosting techniques; achieved 92% test accuracy (validation pipeline + reproducible notebooks).
- **Web Development Projects**
  - **My Portfolio Website** : Created a beautiful portfolio website with separate Personal and Professional Space, [-Link](#).
  - **PrintPerfection website**: Built with Next.js, deployed on a VPS as a freelancing project for a clothing wholesale company.
  - **GAME Website**: Developed with Chakra UI and TypeScript, featuring a user-friendly interface, login, and tokenization.
  - **Cycle Share website**: A platform for IITJ students to share cycles, built with JavaScript, Node.js, and MongoDB.

## Technical Skills

- **Programming Languages:** C, C++, R, HTML, CSS, L<sup>A</sup>T<sub>E</sub>X, MATLAB, Python, JavaScript, TypeScript.
- **Development:** Git, GitHub, Cloud management, Next.js, React, Vue, Node, Express, MongoDB, Postman, Unity.
- **ML/DL and Data:** Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, PyTorch, TextBlob, XGBoost, Hugging Face, Faiss, MONAI, Transformers, spaCy, NLTK, LangChain.
- **Data & Infra:** PostgreSQL, MongoDB, Elasticsearch, Redis, Kafka
- **Deployment & DevOps:** Docker, Nginx, Kubernetes (basic), GitHub Actions, AWS (EC2/S3)
- **Tools & Viz:** Streamlit, Plotly, Power BI, Tableau, Git
- **Other:** RAG demos, prompt engineering, A/B testing, experiment design
- **Soft Skills:** Leadership, Analytical and Strategic thinking, Problem-Solving, Reasoning, Emotional Intelligence.

## Positions of Responsibility or Experience

- **Web & App Development Head, Prometeo** (2024-25)
  - Led development of the official fest site & app: registrations, schedules and event modules; supported **1,200+** sign-ups.
  - Coordinated a team of assistant heads to ensure a smooth workflow and visually compelling user interface.

## Certifications & Courses

- **Oracle Cloud Infrastructure 2025 Certified Data Science Professional** (2025)
  - Practicals: train, optimize, deploy and maintain ML models on OCI; business-focused ML solutions.
- **Data Analytics: Empowering Business** (2025)
  - Dashboard design, Power BI, data cleaning, charts & presentation.