Bharat Gusaiwal

bharatgusaiwal731@gmail.com — 6375128678
linkedin.com/in/bharat-gusaiwal — GitHub: Bharatgwl — LeetCode: Bharat_gwl — Portfolio

Education

NIMS University, Jaipur
B.Tech in Data Science **CGPA: 8.8+**
3rd Year Student (2023 – Present)

Experience

CodeAlpha Remote
Data Science Intern Dec 2025 – Jan 2026

- **Technical Selection:** Selected for the role after demonstrating proficiency in data analysis and Python. Received multiple internship offers (including **CDAC Solutions**) based on technical merit and interview performance.
- Selected for a specialized internship focused on the hands-on application of Data Science concepts.
- Engaging in deep-dive learning modules covering predictive modeling and data analysis.
- Collaborating on projects involving real-world datasets to develop actionable insights and ML solutions.

Skills

- **Programming:** Python, C++,Javascript, SQL
- **Machine Learning & AI:** Supervised & Unsupervised Learning, Deep Learning, Neural Networks (ANN), NLP, Diffusion Models, LoRA Fine-Tuning, Generative AI
- **Frameworks & Libraries:** PyTorch, TensorFlow, Keras, Hugging Face (Transformers, Diffusers), LangChain, OpenCV, NumPy, Pandas, Matplotlib
- **Tools:** Git, GitHub, Docker, Postman
- **Web Development:** MERN Stack (MongoDB, Express.js, React.js, Node.js), REST APIs, Tailwind CSS
- **Data Structures & Algorithms:** Trees, Graphs, Dynamic Programming **(LeetCode: 600+ problems)**

Projects

- **Memory-Efficient SDXL LoRA Fine-Tuning for Identity-Consistent Generation** — *PyTorch, Diffusers, Accelerate*
  Implemented parameter-efficient fine-tuning (LoRA) on SDXL Base 1.0 using mixed precision (FP16), reducing model memory footprint from 14GB to 7GB.
  Resolved CUDA OOM via CPU offloading, attention slicing, and optimized CFG scheduling.
  Conducted LoRA scaling experiments to improve identity retention while preventing mode collapse.
  Built an optimized inference pipeline using Hugging Face Diffusers on T4 GPU (15GB VRAM).
  GitHub: SDXL LoRA Project
- **University Management Platform (Frontend)** — *React.js, Tailwind CSS*
  Developed a responsive university portal UI. Designed dashboards for students and academics using reusable components and React Hooks for state management.
  GitHub: University Platform
- **Alumni Platform (Frontend)** — *React.js, React Router*
  Created an alumni networking platform with real-time chat UI, job listings, and mentor discovery pages. Focused on responsive layout and smooth user navigation.
  GitHub: Alumni Platform
- **AI WhatsApp Bot using LangChain, Gemini & Wikipedia** — *Python, Twilio*
  Built a smart chatbot integrated with WhatsApp via Twilio. Utilized LangChain with Gemini for AI-based responses and Wikipedia tools for real-time information retrieval.
  GitHub: Chatbot
- **Solar Forecasting Model** — *Python, Machine Learning, ANN*
  Developed an ML model to predict solar power output using historical radiation data. Applied Artificial Neural Networks (ANN) to achieve high forecasting accuracy.
  GitHub: Solar Forecasting

Achievements

- **Smart India Hackathon (SIH)** – Developed solutions for real-world problems.
- **University Ideathons** – Presented innovative ideas in multiple events.
- **LeetCode** – Solved **600+** problems to strengthen algorithmic skills.