Ayush Ranjan

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Skills

Languages: Java, Python, C++, C, JavaScript
Technologies: React.js, TensorFlow, PyTorch, Bootstrap, TailWind, DialogFlow ,ComfyUI, Stable Diffusion, LoRA , PyTorch, TensorFlow, OpenAI API
Concepts: Compiler, Operating System, Generative AI, Machine Learning, Deep Learning, Neural Networks
Creative Skills: 3D Animator(Blender), 3D Graphics(Blender 3D) Designer, Game Designer(Unity HUB), Video Editor(Davinci Resolve / VITA)

Experience

Adversarial Nibbler Challenge   October 20 – Jan 2025
Google Research (Paid)   *Remote*
- Submitted 300+ adversarial prompts within 12 weeks, consistently ranked among the top contributors.
- Identified and documented 100+ unique safety vulnerabilities, enhancing AI safety measures.

Projects

🔗 **LoRA Fine-Tuning for Stable Diffusion** | *Python, ComfyUI, Stable Diffusion, PyTorch, Hugging Face*
- Trained a **Low-Rank Adaptation (LoRA)** model for fine-tuning Stable Diffusion on a custom dataset, improving image generation quality.
- Developed **custom ComfyUI workflows** to optimize and deploy LoRA-trained models, enabling real-time image synthesis.
- Optimized training on **low VRAM (GTX 1650 4GB)** by implementing **memory-efficient techniques** like **xFormers**.

🔗 **Conversational Data Insights & NLP-based WhatsApp Chat Analyzer** | *NLP, Matplotlib, Seaborn, Pandas*
- Processed & analyzed 100,000+ messages from 10+ group chats, using NLP, regex parsing, and pandas to extract insights.
- Automated 10+ interactive data visualizations (Matplotlib, Seaborn) for message frequency, peak hours, active users & sentiment trends.

Education

Lovely Professional University   May 2026
Bachelor of Technology in Computer Science − CGPA: 7.71   *Phagwara, Punjab*
- **Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Deep Learning, Artificial Intelligence, Object-Oriented Programming, Computer Networks, Soft Computing, Database Management Systems, Operating Systems

Achievements

- Awarded first prize in Google Adversarial Nibbler Challenge
- Awarded first prize at a state-level infotech festival and 4th in the National Level Innovation Festival
- Competed in a nationwide AI ML Amazon challenge ranking in the Top 100 with an F1 score of 0.40.
- Achieved global rank 682 in Weekly Contest 437 organized by LeetCode.
- **LeetCode:** Rating-1800+,400+ problems solved, **CodeForces:** Rating 1250+,150+ problems solved

Certifications

- **Geeks for Geeks - Data Structures and Algorithms (DSA)** Completed 230 hours of intensive coursework focusing on core data structures and algorithms. *June - July, 2024*
- **NPTEL Certification in Cloud Computing (12-week course)** Achieved a score of 68 in a nationally recognized course offered by IITs, including IIT Kharagpur, covering distributed systems, virtualization, and cloud architecture. *July - October, 2024*