Shaurya Thapliyal

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Skills

OS	Windows Mac Ubuntu	**Tools**	Git Github Gitlab Docker
MLOps	Langchain Kubeflow HuggingFace	**Libraries**	OpenCV Numpy Pandas Flask Django
Languages	Python C++ Javascript	**Databases**	MySQL MongoDB Prisma
Framework	Express.js Node.js React.js	**ML Libraries**	Tensorflow Keras SciPy Cuda Scikit-learn

Education

Vellore Institute Of Technology, Bhopal   **CGPA: 8.4**
Bachelors in Computer Science with spl. in AI and ML   *Oct 2022 - present*
Delhi Public School, Indirapuram   **XIIth CGPA: 8.8**
Delhi Public School, Indirapuram   **Xth CGPA: 9.2**

Certifications

- Applied Machine Learning in Python – University of Michigan (Coursera)
- Full-Stack Web Development Bootcamp – 2024 (Udemy)
- Python Essentials – Vityarthi Portal
- Python (Basic) – HackerRank
- CSS (Basic) – HackerRank
- Privacy and Security in Online Social Media – NPTEL

Experience

ONGC   **Jul 2024 – Aug 2024**
Software Developer Intern (Machine Learning)

- Preprocessed and cleaned the Flanv2-100k dataset using Python and Pandas; applied deduplication and filtering techniques to reduce dataset size by 99%.
- Fine-tuned the LLaMA2-7B language model on 1,000 curated samples to improve inference efficiency and accuracy.
- Used Hugging Face Transformers and Datasets libraries to manage training workflows and model deployment pipelines.
- **Dataset:** flanV2-100k-filtered
  Model: llama2-1k

Projects

Saraswati Chatbot

- Developed a web-based chatbot using LLMs to deliver context-aware responses.
- Enhanced LLaMA 2's token limit by 1,000 tokens, achieving a 24.4% improvement over ChatGPT 3.5.
- GitHub Repository: Saraswati-AI

SmartSolve

- Developed a web app using Tesseract.js OCR to extract math problems from images with 95%+ accuracy.
- Integrated Google Gemini API for real-time step-by-step solutions, reducing problem-solving time by 70%.
- Used LangChain with custom prompts for improved multi-turn response consistency.
- GitHub Repository: SmartSolve-Frontend, SmartSolve-Backend

Pre-trained Neural Recommendation System

- Built a deep learning recommender using PyTorch with 92% top-5 accuracy on a 10K+ record dataset.
- Reduced training time by 35% via efficient batching and data loaders.
- Integrated with SmartVendor, boosting personalized suggestions and engagement by 20%.
- GitHub Repository: Recommendation-Engine

Achievements

- NTSE Stage 1 Qualified
- NSUT Hackathon - Rank 5
- 5 Star in Python (HackerRank)
- 4 Star in Problem Solving (HackerRank)
- 2 Star in SQL (HackerRank)
- 100 Days of Code (Leetcode) - Ongoing