

Shashank Vishwakarma

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Education

Gautam Buddha University, Greater Noida

2021 – Present

Integrated B.Tech–M.Tech, Computer Science and Engineering

Grade: A+; Relevant Courses: Machine Learning, Deep Learning, NLP, Computer Vision, Meta-Heuristics, Probability

Technical Skills

Languages: Python, C

Frameworks: PyTorch

Libraries: NumPy, Pandas, SciPy, scikit-learn, OpenCV

Web: Flask, HTML, CSS, JavaScript

Databases: SQL, MySQL (LAMP Stack)

Tools: Git, Jupyter, Linux

Work Experience

LLM Intern – Toeho.AI

May 2025 – Present

- Developed a Retrieval-Augmented Generation (RAG) system integrating vector DBs and LLMs.
- Built Flask-based website with real-time LLM query interface.
- Managed database schema and inference workflows using open-source LLMs.

Project Intern – IIIT Hyderabad (IndicWIKI)

May 2025 – Present

- Automated article editing in regional languages using Python and NLP tools.
- Used NER, summarization, and fact-checking for proofing and quality control.
- Improved automation pipelines for low-resource Indic language processing.

Intern – Department of Space (Govt. of India)

May 2025 – Present

- Applied CNNs to classify astronomical satellite data.
- Developed ML-based anomaly detection pipelines in Python.

Research Intern – IIT Kanpur (Legal AI)

Jun 2024 – Sep 2024

- Fine-tuned LLaMA on Indian legal datasets for classification and retrieval.
- Curated and cleaned legal datasets using large-scale web scraping.
- Trained models on CDAC Param Sanganak supercomputer.

Project Intern – IIT Kanpur (Network Monitoring)

Jun 2023 – Aug 2023

- Built real-time LAMP-based network monitoring tool.
- Integrated IP tracking, packet logging, and system alerts.

Projects

PaliGemma – Multimodal Vision-Language Model (2025)

- Built a Transformer combining CLIP, SigLip, KV-Cache, and Top-P Sampling.

LongNet – Efficient Attention Scaling (2025)

- Implemented sparse attention mechanisms for billion-token scalability.

Transformer from Scratch (2025)

- Built a Transformer using PyTorch with attention and FFN layers.

Video Sentiment SaaS (2024)

- Deployed full-stack multimodal sentiment analysis system using audio, video, and BERT; hosted on AWS.

Network Monitoring Tool (2023)

- Created real-time traffic analysis platform with LAMP stack.

Certifications

Machine Learning – Coursera (Andrew Ng), Deep Learning – Coursera, Remote Sensing – ISRO, Blockchain – NPTEL, UX Design – Coursera

Extracurricular Activities

IASNLP Summer School 2025 – IIIT Hyderabad; ACM Summer School 2024 – SRM University; ACM Summer School 2023 – IIMSc Chennai; University Badminton Team; NGO Volunteer – YSS