

Nikunj Indoriya

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EDUCATION

Indian Institute of Science Education and Research, Bhopal

Bhopal, India

B.S., Computer Science and Engineering; Minor: Data Science and Engineering; GPA: 8.07 / 10.0

Dec 2022 – Jun 2026

EXPERIENCE

iGPT Agency

Bengaluru, India

AI Engineer

Jan 2026 – Present

- Engineered an AI filmmaking platform orchestrating 12+ LLM agents across 4 generative-AI APIs, cutting per-scene production time 70–85% by replacing a manual prompt-and-regenerate workflow with a single gated pipeline featuring reference-locked continuity and one-click assembly.
- Built an end-to-end candidate-intelligence platform that scrapes LinkedIn profiles via Playwright and GPT-4o, scores candidates with OpenAI embeddings and cosine similarity, and returns ranked shortlists with LLM-generated assessments, cutting manual screening time 90%+ while processing up to 50 profiles per role for under \$0.01 in API cost.

National Astronomical Observatory of Japan

Tokyo, Japan

Student Research Intern

Jan 2025 – Dec 2025

- Designed and trained Attention-based U-Net architectures that achieved a 38–41% reduction in reconstruction-induced parameter uncertainty relative to interpolation methods and baseline neural models, validated on a large-scale dataset of 521 gamma-ray bursts.
- Designed training pipelines, applied extensive hyperparameter tuning, and explored uncertainty quantification and ensemble methods to improve stability, interpretability, and generalization for astrophysical parameter estimation, contributing to two international research publications.

QNu Labs

Bengaluru, India

SparQ Summer Intern

May 2025 – Jul 2025

- Designed and deployed highly available infrastructure on Kubernetes with Docker and CI/CD pipelines, improving scalability, fault tolerance, and reliability of cloud-native service delivery within the organization.

PUBLICATIONS

- Manchanda, A., Kaushal, A., Dainotti, M. G., Gupta, K., Deepu, A., Naqi, S., Felix, J., **Indoriya, N.**, et al. “Gamma-Ray Burst Light-curve Reconstruction: A Comparative Machine and Deep Learning Analysis.” *The Astrophysical Journal Supplement Series*, 281:35, December 2025. Open access. doi:10.3847/1538-4365/ade851
- Kaushal, A., Manchanda, A., Dainotti, M. G., Gupta, K., Nogala, Z., Madhan, A., Naqi, S., Kumar, R., Oad, V., **Indoriya, N.**, et al. “Multi-Model Framework for Reconstructing Gamma-Ray Burst Light Curves.” *Journal of High Energy Astrophysics*, 51:100519, March 2026. doi:10.1016/j.jheap.2025.100519

PROJECTS

Agentic Justice | Python, LangGraph, Llama 3.3 / GPT-4o, Qdrant, BM25

Jan 2026 – May 2026

- Engineered a 4-agent retrieval-augmented pipeline over 7,500 Indian Supreme Court judgments (93,927 embedded chunks), fusing dense (bge-large), BM25, and citation-graph retrieval via Reciprocal Rank Fusion to lift retrieval MRR by 15 points (0.79 to 0.91).
- Designed a novel 3-level citation-verification agent (existence, metadata, and semantic-entailment checks) that eliminated LLM citation hallucinations entirely (0.0% across 237 citations on 50 benchmark questions), raising citation precision by 18 points over raw retrieval.

Faculty Outreach Automation (CLI) | Python, LiteLLM, Playwright, SQLite

Feb 2026 – May 2026

- Engineered a multi-strategy faculty-page scraper (CSS, heuristic, and LLM extraction with Playwright for JS-rendered pages) that auto-scores and ranks candidate fields, parsing names, emails, and research interests across heterogeneous layouts.
- Built the full outreach loop end to end: DuckDuckGo discovery, resume-parsed student profile, research-overlap scoring, 3-variant cold-email generation, and Gmail OAuth2 sending with SQLite-backed reply tracking and 30-day auto-timeout.

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, SQL, JavaScript, HTML/CSS

ML & Deep Learning: PyTorch, TensorFlow, scikit-learn, Computer Vision, Time-Series Modeling, Federated Learning

Generative AI & LLMs: RAG, LLM Agents, LangGraph, LangChain, Multi-Agent Orchestration, Prompt Engineering, vLLM

Retrieval & Vector Search: Qdrant, Embeddings (BGE/OpenAI), BM25, Reciprocal Rank Fusion, Cross-Encoder Reranking

Tools & Systems: Linux, Bash, Git, Docker, Kubernetes, CI/CD, Cloudflare, Playwright, NumPy, pandas

ACHIEVEMENTS

- Secured a Student Innovation Grant to design and develop Agentic Justice, a retrieval-augmented generation system for legal research.
- Secured an All-India Rank of around 7,000 (top ~7% of 0.1M+ candidates) in GATE 2026, Computer Science & IT.
- Served on IISER Bhopal’s Student Activity Council Election Committee, conducting university-wide student elections for two consecutive years.