Nikhil Kapila

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SUMMARY

Skilled Machine Learning Practitioner with hands-on experience with Machine Learning and Deep Learning techniques. Proven ability to design and deploy AI models, optimize ML pipelines. Experienced in lighting and lighting control systems.

EDUCATION

Georgia Institute of Technology   Batch of 2025
Master of Science in Computer Science - Artificial Intelligence (OMSCS Program)   *Atlanta, GA*
- CGPA: 4.00 / 4.00
- AI related courses: Machine Learning, Deep Learning, Natural Language Processing, Big Data for Health

National Institute of Technology   Batch of 2018
Bachelors of Technology in Electronics and Communication Engineering   *New Delhi, India*
- Excelled in CS-related course work: Data Structures, Algorithms, Object-Oriented Programming, Computer Networks, Image Processing

WORK EXPERIENCE

Technical Engineer   Jun 2018 — Present
Luxtron Systems   *United Arab Emirates*
- Led the transition towards lighting & control systems which increased business value and market share.
- Collaborated with cross-functional teams to deliver customized control solutions.
- Currently working on integrating AI features into our service offerings.

Graduate Researcher   May 2024 — Aug 2024
Georgia Institute of Technology   *Remote (Atlanta, GA)*
- Graduate researcher, a part of the Human-Augmented Analytics Group.
- Built MLOps pipeline and researched democratizing LSTM models across building datasets. | ⌗ Github | ▶ YouTube

RESEARCH WORK

- **FarSightBERT: Enhancing Embeddings for Long Term Disease Prediction (04/25)** | ⌗ Github
- **CNNtention: Can CNNs do better with Attention? (12/24)** | ⌗ Github
- **Training LSTMs on Building Genome 2 Data (07/24)** | ⌗ Github

VOLUNTEERING

- `Unofficial` TA for Georgia Tech's Machine Learning class. Maintaining `mlrose-ky` library and documentation used in class.
- OMSCS UAE Chapterhead: created the UAE chapter and grew it to ~40 people from a group of 3.

PROJECTS

I am actively **building side projects** and contributing to **open source repositories** focused on AI tooling.
- **mcp-local-rag**
  "primitive" RAG-like web search "model context protocol (MCP)" server that runs locally | **Language**: Python
- **mcp-meme-sticky**
  create AI generated memes and convert them into stickers for Telegram or WhatsApp | **Language**: Python

SKILLS

- **Languages**: Python, C, C++, MATLAB
- **Frameworks**: PyTorch/TensorFlow, SKLearn, Ollama, NumPy, Pandas/Polars, MLFlow, FastAPI, MCP servers
- **Tools**: HuggingFace, GitHub, Git VCS, Docker, GitHub Actions, AutoCAD | **Platforms**: Linux/Windows/macOS
- **Research and Development**: Academic Research, Lit Review, Market Review, Technical Documentation

HACKATHON AND TALKS

- Gave a talk on my MCP server projects at AI Tinkerers Dubai Meetup – June 2025 Demo Day

AWARDS & CERTIFICATIONS

- Won 2nd place at **AI Tinkerers - Dubai Hackathon - May 2025**
- **Fundamentals of Deep Learning**, NVIDIA (12/2024)
- **Machine Learning with Python**, IBM (04/2024)
- **Machine Learning Foundations: A Case Study Approach**, University of Washington (01/2024)