

# Nikhil Kapila

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## SUMMARY

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

## EDUCATION

### Georgia Institute of Technology

Batch of Fall 2025

*Master of Science in Computer Science - Artificial Intelligence (OMSCS Program)*

*Atlanta, GA*

- Current GPA: 4.00 / 4.00
- AI relevant coursework: Machine Learning, Deep Learning, Natural Lang Processing, Research Work, Big Data for Health

### National Institute of Technology

2014 — 2018

*Bachelors of Technology in Electronics and Communication Engineering*

*New Delhi, India*

- GPA: 6.97 / 10.00
- 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 and control systems from LED components which increased business value.
- Designing and installation of lighting control systems.
- Collaborated with cross-functional teams to deliver customized control solutions.
- Currently working on integrating AI features into our service offerings.
- Trying to automate the commissioning process using Agents or similar.

### Graduate Researcher

May 2024 — Aug 2024

Georgia Institute of Technology

*Remote (Atlanta, GA)*

- Graduate researcher, a part of the [Human-Augmented Analytics Group](#).
- Implemented a full MLOps pipeline and researched whether LSTM models could be democratized on different building data. Published findings and models on HuggingFace Spaces and Github.

### R&D Trainee

Aug 2019 — Sept 2019

Helvar Oy Ab

*Finland*

- Evaluated intelligent wireless nodes for lighting control systems.
- Created technical documentation for AC-DC converters in LED lighting.
- Presented market research findings for Middle Eastern lighting trends.

### Research Intern

2017 — 2018

Indian Institute of Technology, Delhi

*New Delhi, India*

- Developed simulations for quadrotor systems using MATLAB Simulink.
- Analyzed mechanical systems leading to quadrotor design optimizations.

## RESEARCH WORK (PRE PRINTS)

- **Kapila, N. & Rathi, T.** (Apr 2025) [“FarSightBERT: Enhancing Embeddings for Long Term Disease Prediction”](#)  
🌐 [Github](#)
- **Kapila, N., Glattki, J., & Rathi, T.** (December 2024). [“CNNtention: Can CNNs do better with Attention?”](#)  
arXiv:2412.11657 [cs.CV]. 🌐 [Github](#)
- **Kapila, N.** (July 2024). [“Training LSTMs on Building Genome 2 Data.”](#) 🌐 [Github](#)

## VOLUNTEER WORK

- Unofficial TA for Georgia Tech’s Machine Learning class. Maintaining [mlrose-ky](#) library and documentation used in the class.

- OMSCS UAE Chapterhead: created the UAE chapter and grew it to ~40 people from a group of 3.

## OPEN SOURCE WORK

The list below may be out of date. Click for [Updated list of projects](#) and [Open Source Contributions](#).

Project	Type	Contribution
<a href="#">skore</a> the scikit-learn sidekick	Open Source Contribution	Added new features for <code>train_test_split</code> , documentation and test cases.
<a href="#">mlrose-ky</a> Random optimization library used in Georgia Tech's Machine Learning class	Open Source Contribution	Added new features such as ability to parallelize experimentation, bug fixes, better documentation to help students understand how to conduct experiments
<a href="#">biscuit</a> code editor in python	Open Source Contribution	Added relative line numbering as a part of <b>Hacktoberfest 2024</b> .
<a href="#">mcp-local-rag</a> Model Context Protocol (MCP) server listed on <a href="#">MCP servers official repo</a>	Open Source Project	“primitive” RAG-like web search “model context protocol (MCP)” server that runs locally. No APIs required.
<a href="#">mcp-meme-sticky</a> Model Context Protocol (MCP) server listed on <a href="#">MCP servers official repo</a>	Open Source Project	Create AI generated memes and convert them into stickers for Telegram or WhatsApp. No APIs required.

## SKILLS

**Languages:** Python, C, C++, MATLAB, etc.

**Frameworks:** Experienced with PyTorch, ScikitLearn, NumPy/Numba, Pandas/Polars, Captum, Skorch, MLFlow, FastAPI, etc.

**Tools:** HuggingFace, GitHub, Git VCS, Docker, GitHub CI/CD, DIALux, AutoCAD.

**Research and Development:** Academic Research, Lit Review, Market Review, Technical Documentation, Experiment Design, Data Pipeline Implementation.

**Soft Skills:** Collaboration in Cross-Functional Teams, Technical Communication, Problem-Solving, Project Management.

## HACKATHON AND TALKS

- Won 2nd place at [AI Tinkerers - Dubai Hackathon - May 2025 - Powered by Couchbase!](#)
- Gave a talk on my MCP server projects at [AI Tinkerers Dubai Meetup – June 2025 Demo Day](#)

## CERTIFICATIONS – LISTING RECENT 3 ONLY

Up to date list can be viewed on my LinkedIn.

- **Fundamentals of Deep Learning**, Nvidia ([https://learn.nvidia.com/certificates?id=0x3zAbT6TfilxUwD\\_kMgaA](https://learn.nvidia.com/certificates?id=0x3zAbT6TfilxUwD_kMgaA)) 2024
- **Machine Learning with Python**, IBM (<https://www.credly.com/badges/88522d33-bcf6-4aca-ae8c-21a58a68a594/print>) 2024
- **Machine Learning Foundations: A Case Study Approach**, University of Washington (<https://www.coursera.org/account/accomplishments/verify/W6DPNVH4V88P>) 2024

## REFERENCES

Can be viewed on LinkedIn.