

Oikantik Nath

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EDUCATION

2022–On	MS+PhD in Computer Science and Engineering Advisor: Mitesh M. Khapra	IIT Madras CGPA: 8.57
2017–2021	B.Tech in Computer Science and Engineering Advisor: Mitesh M. Khapra	IEM Kolkata CGPA: 9.4

EXPERIENCE

2024–On	AI4Bharat, IIT Madras <i>PhD Researcher</i> Working on building and evaluating multilingual OCR and document understanding models for Indic languages, with a focus on assessing Vision-Language Models (VLMs) for text recognition and handwritten mathematical reasoning.
2022–2024	MS Researcher Worked on developing document layout parsing models as a foundational step toward robust document understanding for Indic languages.

PUBLICATIONS

2025	Can Vision-Language Models Evaluate Handwritten Math? <u>Oikantik Nath</u> , Hanani Bathina, Mohammed Safi Ur Rahman Khan, Mitesh Khapra <i>63rd Annual Meeting of the Association for Computational Linguistics, Vienna, Austria</i>
2025	IndicDLP: A Foundational Dataset for Multi-Lingual and Multi-Domain Document Layout Parsing <u>Oikantik Nath</u> , Sahithi Kukkala, Mitesh Khapra, Ravi Kiran Sarvadevabhatla <i>19th International Conference on Document Analysis and Recognition, Wuhan, China</i> ❖ BEST STUDENT PAPER RUNNER-UP AWARD

PROJECTS

Jul'24-'25	IndicDLP Built a massive-scale, annotated dataset of 220K document images in 22 Indian languages with layout parsing and OCR annotations.
Jul-Dec'24	FERMAT

Designed a benchmark to evaluate handwritten math reasoning in VLMs through fine-grained perturbations.

Jul-Dec'24 **Synthetic Document Generation Pipeline**

Developed a large-scale synthetic data pipeline to ingest multi-lingual documents and synthesize Indic-language versions with preserved layouts, creating paired OCR annotations for supervised model fine-tuning.

AWARDS

2025 Awarded the Best Student Paper Runner-up Award at ICDAR'25, Wuhan, China.

2023 Best Teaching Assistant Award for Deep Learning.

2022 GATE Computer Science Rank 442 out of 90K candidates

PERSONAL PROFILE

Hobbies Reading non-fiction | Sketching and Painting

Languages Bengali | Hindi | English

SKILLS

Programming Python | C/C++ | L^AT_EX

Deep Learning PyTorch | Lightning

Visualization Matplotlib | OpenCV