

# Oikantik Nath

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## EDUCATION

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

## EXPERIENCE

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<b>2024–On</b>	<b>AI4Bharat, IIT Madras</b> <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.
<b>2022–2024</b>	<i>MS Researcher</i> Worked on developing document layout parsing models as a foundational step toward robust document understanding for Indic languages.

## PUBLICATIONS

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

## PROJECTS

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

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

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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

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**Hobbies** Reading non-fiction | Sketching and Painting

**Languages** Bengali | Hindi | English

## SKILLS

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**Programming** Python | C/C++ |  $\text{\LaTeX}$

**Deep Learning** PyTorch | Lightning

**Visualization** Matplotlib | OpenCV