

Dikshya Mohanty

PhD Candidate, Computer Science — Stony Brook University

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Research: LLM agents and efficient ML systems, compositional reasoning and planning, alignment, evaluation, reinforcement learning (RL), retrieval-augmented generation (RAG), scientific hypothesis generation and verification.

EDUCATION

Stony Brook University

Ph.D., Computer Science

Stony Brook, NY

Aug 2024 – Present

University of North Carolina at Charlotte

M.S., Data Science & Business Analytics — Top 1% academic standing

Charlotte, NC

Aug 2018 – Dec 2019

Indira Gandhi Institute of Technology

B.Tech., Computer Science

Sarang, India

Jul 2012 – Jun 2016

EXPERIENCE

Ernst & Young LLP (EY)

Manager / Lead Data Scientist

Chicago, IL

Jan 2020 – Aug 2024

- Led a team of data scientists shipping production ML platforms for tax and financial analytics across 40+ enterprise clients; owned architecture, scalable ML APIs, deployment, and MLOps in regulated environments.
- Designed human-in-the-loop systems with feedback-driven metrics and active learning, driving sustained cost reduction and operational efficiency.

Amazon.com

Applied Science Intern, Seller Lending

Seattle, WA

Summer 2019

- Built predictive models for early seller success and risk to drive automated lending decisions; engineered behavioral features ranking in the top decile among ~30K candidates via offline validation, A/B tests, and attribution.

Tata Consultancy Services (TCS)

Data Science Developer

Pune, India

Jul 2016 – Jul 2018

- Built end-to-end ML/NLP pipelines (ingestion, modeling, evaluation, API deployment), including clinical and pharmaceutical NLP systems for text classification over large scientific corpora.

PUBLICATIONS

- **D. Mohanty**, T. Sabadyn, J. Rodrigues, C. Wang, A. Kalugade, R. Banerjee. *A Longitudinal, Multinational, and Multilingual Corpus of News Coverage of the Russo-Ukrainian War*. To appear, LREC 2026.
- N. Soni, D. V. Kunjadiya, P. P. Shah, **D. Mohanty**, H. Schwartz, N. Balasubramanian. *Addressing the Ecological Fallacy in Larger LLMs with the Author's Context*. To appear, CoNLL 2026.
- **D. Mohanty**, M. S. Hasan, S. M. Monsur, S. Zheng, B. Hsiao, N. Balasubramanian. *Teaching and Evaluating LLMs to Reason About Polymer Design Related Tasks*. Under review, ACL Rolling Review (May 2026 cycle).
- **D. Mohanty**, N. Balasubramanian. *Measuring Novelty and Diversity in LLM Reasoning for Polymer Design*. In preparation.

SELECTED PROJECTS

- **PolyBench / PolyLM:** 125K+ task benchmark for multi-constraint polymer design with knowledge-augmented reasoning traces and diagnostic eval of compositional skill gaps in LLMs.
- **DNIPRO:** Longitudinal analysis of geopolitical framing across countries on a multilingual news corpus (246K+ articles).
- **LLaVA-1.5 Adaptive Pruning:** Token-pruning strategies in a 7B vision-language transformer; benchmarked efficiency tradeoffs on VQA-v2, TextVQA, POPE.
- **LLM Alignment & Catastrophic Forgetting:** Quantified forgetting under sequential SFT/RLHF on GPT-2 and impacts on commonsense reasoning.

HONORS & AWARDS

DARPA SciFy contributor (2026) • NSF AI4Science research project (2026) • SUNY RF Academic Fellowship (2025) • EY Ovation Award — Top 5% performer (FY22–23) • EY AI Challenge Winner, FastAI Kaggle (FY20) • EY Bravo Awards (FY20–23) • Outstanding Academic Standing, Top 1% (UNCC) • Best Intern Award (IIT Kharagpur).

SKILLS

Languages: Python, SQL, Bash. **ML/NLP:** PyTorch, HuggingFace, TensorFlow, Transformers, LLMs, RAG, RLHF, evaluation & benchmarking. **Systems:** Model serving, MLOps, distributed training, experimentation pipelines, performance optimization. **Analytics:** Time-series, multimodal learning, feature engineering, A/B testing, statistical modeling.