

Anup Shakya

A 4th year PhD student actively looking for industry-level research opportunities.

CONTACT

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WORK EXPERIENCE

University of Memphis

Jan 2020 — Present

Graduate Research Assistant

- Working full-time in UofM Machine Learning Research Lab
- Gained research experience working on several research projects. Carrying out various experiments with state-of-the-art ML models, scrutinizing the results and producing research works publishable in top-tier scientific journals.

Deerwalk Services

Dec 2015 — Jan 2020

Software Engineer Lead

- Gained substantial professional experience in software development along with critical skills like time management, critical thinking, leadership, and effective communication.
- Worked extensively in development of Health Care web applications, leading different projects like Real-Time Integration, Incentive Manager and Provider portal which dealt with real-time data flow between different in-house web applications.

TECHNICAL SKILLS

- Programming Languages like: C, Java, Groovy, JavaScript, Python
- ML Frameworks like: PyTorch and TensorFlow
- Grails and Spring Framework, Hibernate, MySQL, Elastic Search
- Amazon Web Services like: Lambda, S3 and Redshift

EDUCATION

Computer Science (Ph.D.)

2020 — Present

University of Memphis

Currently in 4th year with GPA: 3.99

Graduating in August 2024

Computer Science (Master's)

2020 — 2022

University of Memphis

GPA: 3.98

RESEARCH INTERESTS

Neuro-Symbolic AI, Machine Learning, Intelligent Tutoring Systems, Natural Language Processing and Neural Network Verification

PUBLICATIONS

- Anup Shakya, Abisha Thapa Magar, Somdeb Sarkhel and Deepak Venugopal, **On the Verification of Embeddings using Hybrid Markov Logic**, In Proceedings of the 23rd IEEE International Conference on Data Mining (ICDM), 2023 Dec, pp. 1307-1312. ([link](#))
- Abisha Thapa Magar, Anup Shakya, Somdeb Sarkhel and Deepak Venugopal, **Verifying Relational Explanations: A Probabilistic approach**, Proceedings of 2023 IEEE International Conference on Big Data, 2023 Dec (accepted as main-track conference paper).
- Anup Shakya, Vasile Rus and Deepak Venugopal, **Scalable and Equitable Math Problem Solving Strategy Prediction in Big Educational Data**, Proceedings of the 16th International Conference on Educational Data Mining (EDM 2023), 2023 (<https://github.com/anupshakya07/attn-scaling>).
- Anup Shakya, Vasile Rus and Deepak Venugopal, **Student Strategy Prediction using a Neuro-Symbolic Approach**, Proceedings of the 14th International Educational Data Mining Conference (EDM 21), 2021 (<https://github.com/anupshakya07/SSPM>).
- Anup Shakya, Vasile Rus, Stephen Fancsali, Steve Ritter and Deepak Venugopal, **NeTra: A Neuro-Symbolic System to Discover Strategies in Math Learning**, Proceedings of the 3rd Learner Data Institute Workshop in conjunction with EDM, 2022.

ACHIEVEMENTS

- 2nd Position in 18th Annual CS Research Symposium (2023) at The University of Memphis
- Peter I Neathery Fellowship 2021