

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 in 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**, Proceedings of the 23rd IEEE International Conference on Data Mining (ICDM 2023), 2023 (accepted as main-track conference paper).
- 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 (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