# **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 GE

Currently in 4<sup>th</sup> 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 Al, 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 23<sup>rd</sup> 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 16<sup>th</sup> International Conference on Educational Data Mining (EDM 2023), 2023 (<a href="https://github.com/anupshakya07/attn-scaling">https://github.com/anupshakya07/attn-scaling</a>).
- 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 (<a href="https://github.com/anupshakya07/SSPM">https://github.com/anupshakya07/SSPM</a>).
- 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 18<sup>th</sup> Annual CS Research Symposium (2023) at The University of Memphis
- Peter I Neathery Fellowship 2021

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