Anup Shakya

CONTACT

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EDUCATION

Computer Science (Ph.D.) — Expected Aug 2024

University of Memphis
Currently in 4th year with GPA: **3.99**

Computer Science (Master's) — Aug 2022

University of Memphis
GPA: **3.98**

WORK EXPERIENCE

University of Memphis — Jan 2020 — Present

Graduate Research Assistant

- Performed full-time research within the UofM Machine Learning Research Lab.
- Conducted experiments with cutting-edge ML models and enhanced problem-solving skills.
- Innovated research methodologies, scrutinized experimental results, and authored research publications in esteemed scientific journals.

Deerwalk Services — Dec 2015 — Jan 2020

Software Engineer Lead

- Orchestrated the development of Health Care web applications, demonstrating proficiency in software development and cultivating critical skills such as time management, critical thinking, leadership, and effective communication.
- Led multiple projects, managing end-to-end development processes and ensuring real-time data flow among various in-house web applications.
- Achieved successful project outcomes, enhancing system efficiency and contributing to the overall success of the organization.

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

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**