VISHAL SUNDER

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RESEARCH INTERESTS

Deep Learning, Natural Language Processing and Dialogue Systems

EDUCATION

PhD in Computer Science *August 2019 - Present*
The Ohio State University *Overall CPI: 3.85/4.00*
Advisor: Dr. Eric Fosler-Lussier

Bachelor of Technology in Electrical Engineering *May 2016*
Indian Institute of Technology, Banaras Hindu University (IIT-BHU) *Overall CPI: 8.35/10*

PROFESSIONAL EXPERIENCE

TCS Research, New Delhi, India *July 2016 - July 2019*
Researcher
Deep Learning and Artificial Intelligence group

TEACHING EXPERIENCE

The Ohio State University *August 2019 - Present*
Graduate Teaching Assistant
Course: Modeling and Problem Solving with Spreadsheets and Databases

PUBLICATIONS

V. Sunder, E. Fosler-Lussier. Handling Class Imbalance in Low-Resource Dialogue Systems by Combining Few-Shot Classification and Interpolation. Submitted to *ICASSP-2021*. [Preprint] [Code]

V. Sunder, A. Srinivasan, L. Vig, G. Shroff, R. Rahul: One-shot information extraction from document images using neuro-deductive program synthesis. *Proceedings of the 14th International Workshop on Neural-Symbolic Learning and Reasoning (IJCAI 2019)*. [Paper]

G. Gupta,**V. Sunder**, R. Prasad, G. Shroff. CRESA: A Deep Learning Approach to Competing Risk Recurrent Event Survival Analysis. *Proceedings of PAKDD-2019*. [Paper]

V. Sunder, L. Vig, A. Chatterjee, G. Shroff. Prosocial or Selfish? Agents with different behaviors for Contract Negotiation using Reinforcement Learning. *Proceedings of the 11th International Workshop on Automated Negotiations (IJCAI/ECAI 2018)*. [Paper]

V. Sunder, M. Yadav, L. Vig, G. Shroff. Information Bottleneck Inspired Method for Chat Text Segmentation. *Proceedings of IJCNLP 2017*. [Paper]

PRESENTATIONS

Agents with Different Behaviors for Contract Negotiation using Reinforcement Learning, ACAN workshop, IJCAI, Stockholm, Sweden, July 2018. [Slides]

Information Bottleneck Inspired Method For Chat Text Segmentation, IJCNLP, Taipei, Taiwan, November 2017. [Slides]

TECHNICAL SKILLS

Programming:

Proficient in Python

Familiar with C, C++, Java

Deep Learning Tools:

Proficient in Pytorch

Familiar with Tensorflow, Keras

ACHIEVEMENTS

Secured a position in top *0.4%* amongst *600,000 (approx)* candidates in IIT Joint Entrance Exam 2012.

Secured a position in top *0.7%* amongst *1,200,000 (approx)* candidates in All India Engineering Entrance Exam 2012.

RELEVANT COURSES

***Computer Science**:* Advanced Artificial Intelligence, Data Mining, Advanced Algorithms, Foundations of Programming Languages, Computer Architecture.

***Mathematics**:* Mathematics I (Calculus), Mathematics II (Linear Algebra), Numerical Methods, Optimization Techniques.