Nirbhay Modhe

CONTACT PhD Candidate, advised by Prof. Dhruv Batra

College of Computing, Georgia Tech

email: nirbhayjm.github.io

EDUCATION Georgia Tech, PhD in Computer Science 2017-present

IIT Kanpur, B. Tech in Computer Science, CGPA: 9.7/10

2013-2017

PUBLICATIONS Nirbhay Modhe, Harish Kamath, Dhruv Batra, Ashwin Kalyan.

Nirbhay Modhe*, Harish Kamath*, Dhruv Batra, Ashwin Kalyan. Bridging Worlds in Reinforcement Learning with Model-Advantage 4th Lifelong Machine Learning Workshop at ICML 2020 (PDF ♂)

Nirbhay Modhe, Prithvijit Chattopadhyay, Mohit Sharma, Abhishek Das, Devi Parikh, Dhruv Batra, Ramakrishna Vedantam. IR-VIC: Unsupervised Discovery of Sub-goals for Transfer in RL International Joint Conference on Artificial Intelligence, Yokohoma, Japan, 2020 (IJCAI20 , arXiv)

Vikas Jain*, **Nirbhay Modhe***, Piyush Rai. Scalable Generative Models for Multi-label Learning with Missing Labels. *International Conference on Machine Learning (ICML)*, 2017 (pdf $\[\]$)

INTERNSHIPS SRI International, Giedrius Burachas

Summer 2018

Stochastic Video Prediction for Navigation

• Applied disentangled representations for stochastic video prediction in a virtual Unity3D environment and the KITTI dataset.

University of Texas at Dallas, Prof. Vincent Ng

Summer 2016

Event Coreference Resolution

• Explored the use of recurrent neural networks for event coreference resolution

OPEN SOURCE

VisDial-RL in PyTorch, Prof. Dhruv Batra

July 2018

batra-mlp-lab/visdial-rl ♂

• Lead the open source project for implementing VisDial RL - Learning Cooperative Visual Dialog Agents using Deep Reinforcement Learning by Das and Kottur et. al., 2017, in PyTorch. (Github &)

TEACHING EXPERIENCE

Teaching Assistant, Deep Learning, Georgia Tech

- \bullet Served as TA for CS 7643/4803 in Fall 2018 and Fall 2019.
- Gave an introductory lecture on dynamic programming methods for solving MDPs and an introduction to Reinforcement Learning in Fall 2019. (RL slides pdf &)

Tutor, Fundamentals of Computing (ESC101), IIT Kanpur

- Taught in weekly tutorial classes for ESC101 in Fall 2016 and Spring 2017.
- Recorded video lectures in Hindi and partly in English as a part of the course offering to aid students sturggling with understanding English. (YouTube playlist ©)

REVIEWING

Served as a reviewer for ECCV 2018, CVPR 2019, ICLR 2019, ICLR 2020, AAAI 2020, NeurIPS 2020, ICML 2021, ICLR 2021, NeurIPS 2021, ICLR 2022.

ACADEMIC ACCOLADES

- Received **Academic Excellence Award** twice for outstanding academic performance (awarded to top 7% students in the institute) from 2013-15
- Received an **A* grade** in 8 courses (awarded to top 1-2% students in a course)
- Secured All India Rank 414 (among 150,000 students) in JEE Advanced 2013
- Secured All India Rank 313 (among 5,000,000 students) in JEE Mains 2013

TECHNICAL SKILLS

Languages: Python, Shell, C, C++, R, Matlab/Octave

Software & Tools : PyTorch, TensorFlow, LATEX