Vishwali Mhasawade

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RESEARCH INTERESTS

Multi-Environment Learning, Fair Domain Adaptation, Causal Inference, Algorithmic Fairness

EDUCATION

New York University, New York, USA **09/2019 - Present**
Ph.D. in Computer Science. **Advisor: Rumi Chunara**

New York University, New York, USA **09/2017 - 05/2019**
Master of Science in Computer Science. **Advisor: Rumi Chunara** *CGPA : 3.785/4*

Pune University, Pune, India **06/2013 - 06/2017**
Bachelor of Engineering in Computer Engineeing *CGPA : 3.695/4*

PUBLICATIONS

1. Vishwali Mhasawade, Rumi Chunara.
Causal Multi-level Fairness.
Under Review

2. Harvineet Singh*, Vishwali Mhasawade*, Rumi Chunara.
Assessing Threats to Generalizability of Mortality Prediction Models across Hospitals.
Under Review

3. Harvineet Singh, Rina Singh, Vishwali Mhasawade, Rumi Chunara.
Fairness Violations and Mitigation under Distribution Shift.
ACM FAccT conference, 2021.
Fair ML for Health workshop at NeurIPS, 2019. **Spotlight presentation**. [Link]

4. Vishwali Mhasawade, Yuan Zhao, Rumi Chunara
Machine Learning in Population and Public Health
arXiv preprint arXiv:2008.07278, 2020 [Link]

5. Vishwali Mhasawade, Rumi Chunara.
Multi-Environment Functional Causal Models using Gaussian Processes.
Workshop on Causal Inference for Decision Making, ICLR, 2020.

6. Vishwali Mhasawade, Nabeel Abdur Rehman, Rumi Chunara.
Population-aware Hierarchical Bayesian Domain Adaptation via Multi-component Invariant Learning.
ACM Conference on Health, Inference and Learning, 2020.
Machine Learning for Health (ML4H) Workshop at NeurIPS, 2018. [Link]

7. Vishwali Mhasawade, Anas Elghafari, Dustin Duncan, Rumi Chunara.
Role of the Online and Built Social Environments in the expression of dining on Instagram.
International Journal of Environmental Research and Public Health, 2020. [Link]

8. Gregory W. Johnsen, Ling Lin, Lucia Yu, Andrew Dempsey, Vishwali Mhasawade, Daniel Jaroslawicz, Iddo Drori.
Explainable Musical Phrase Completion.

Joint Workshop on Machine Learning for Music at ICML, 2018. [Link]

9. Vishwali Mhasawade, Ildikó Emese Szabó, Melanie Tosik, Sheng-Fu Wang.
Neural Networks and Quantifier Conservativity : Does Data Distribution affect learnability?
arXiv preprint arXiv:1809.05733, 2018. [Link]

WORK EXPERIENCE

FairFrame Inc. **New York, USA**
Co-Founder and Machine Learning Head *02/2018 - 11/2018*
Winner of NYU $300K Entrepreneurs Challenge, 2018.

In2things Automation Pvt. Ltd. **Pune, India**
Software Development Intern *12/2016 - 02/2017*

POSITIONS OF RESPONSIBILITY

Internship Mentor: ARISE Program, New York University *Summer 2019, 2020*
Mentored high school students in a STEM research exposure program.
Teaching Assistant: Deep Learning (CS-GY 9223), New York University *Fall 2018*
Instructor: Iddo Drori

AWARDS

School of Engineering Fellowship *New York University, 2019-2020*
Graduate Scholarship *New York University, 2017-2019*

TALKS

Tutorial at ACM Conference on Health Inference and Learning.
Machine Learning in Population and Public Health.
arXiv preprint arXiv:2008.07278 (2020). [Link]

SERVICE

Reviewer
NeurIPS, 2020
ACM Conference on Health, Inference and Learning, 2020.
Machine Learning in Real Life (ML-IRL) Workshop at ICLR, 2020.
Machine Learning for Health (ML4H) workshop at NeurIPS, 2019, 2020.
Machine Learning in Public Health (MLPH) workshop at NeurIPS, 2020.

TECHNICAL SKILLS

Programming Languages: (Proficient) Python; (Familiar) R, C++, Matlab, Javascript.
ML Frameworks: Tensorflow, PyTorch, Keras, Pyro, GPyTorch.
Applications and Tools: LaTex, git, MS Office, Bash Scripting.