Nabiha Asghar

 □ ch.nabiha@gmail.com Location: Seattle, WA, USA

http://nabihach.github.io www.linkedin.com/in/nabihaasghar

- HIGHLIGHTS \diamond Skills: Natural Language Processing, Machine Learning, Deep Learning, Algorithms, Probabilistic Models, Python, AWS, Linux, Git, Technical Writing
 - ♦ Experience: NLP Engineer at Textio; NLP research collaborator at Huawei; Data Scientist at ProNavigator.
 - ♦ Publications: ICLR 2020, ICML Workshop 2019, ECIR 2018, *SEM 2017, UAI 2015.

- EDUCATION \diamond University of Waterloo, Waterloo, ON, Canada. Ph.D. in Computer Science (Sept 2014 - Dec 2019), GPA: 94.75%
 - ♦ University of Waterloo, Waterloo, ON, Canada. M.Math. in Combinatorics & Optimization (Sept 2011 - Dec 2012).
 - ♦ Lahore University of Management Sciences, Lahore, Pakistan. B.Sc. Honors. in Mathematics (2006-2010). CGPA: 3.91/4.00.

SKILLS

- ♦ Natural Language Processing, Machine Learning, Deep Learning, Probabilistic Modeling, Algorithm Analysis, Technical Writing
- ♦ Python (PyTorch, Keras), Java, Linux, SVN, Git, AWS

Research

- ♦ N. Asghar, I. Kobyzev, J. Hoey, P. Poupart, M.B. Sheikh. Generating Emotionally Aligned Responses in Neural Dialogue Systems using Affect Control Theory. arXiv preprint arXiv:2003.03645, 2020.
- ♦ N. Asghar, L. Mou, K. A. Selby, K. D. Pantasdo, P. Poupart, X. Jiang. Progressive Memory Banks for Incremental Domain Adaptation. International Conference on Learning Representations (ICLR), 2020.
- ♦ N. Asghar, P. Poupart, J. Hoey, X. Jiang, L. Mou. Affective Neural Response Generation. 40th European Conference on Information Retrieval (ECIR), 2018.
- ♦ N. Asghar, P. Poupart, X. Jiang, H. Li. Deep Active Learning for Dialogue Generation. 6th Joint Conference on Lexical and Computational Semantics (*SEM), 2017.
- ♦ N. Asghar. Automatic Extraction of Causal Relations from Natural Language Texts: A Comprehensive Survey. arXiv:1605.07895, May 2016.
- ♦ N. Asghar. Yelp Dataset Challenge: Review Rating Prediction. arXiv:1605.05362, 2016.
- ♦ N. Asghar, J. Hoey. Intelligent Affect: Rational Decision Making for Socially Aligned Agents. 31st Conference on Uncertainty in Artificial Intelligence (UAI), 2015.
- ♦ N. Asghar, J. Hoey. Monte-Carlo Planning for Socially Aligned Agents using Bayesian Affect Control Theory. University of Waterloo, Technical Report # CS-2014-21, 2014.
- ♦ N. Asghar. Grötzsch's Theorem. MMath Dissertation, University of Waterloo, 2013.

Relevant

♦ Software Engineer - NLP, Textio, Inc (Aug 2019 – Apr 2020).

EXPERIENCE

Building predictive solutions for Textio's augmented writing platform using machine learning and mathematical modeling.

Nabiha Asghar

- ♦ Graduate Researcher, Vector Institute for AI, Canada (Feb 2018 Feb 2019).
 Researching machine learning techniques for dialogue systems.
- ♦ Data Scientist NLP, ProNavigator, Canada, (Mar 2017 Aug 2018).
 Developed conversational AI for customer support (insurance domain).
- ♦ Graduate Research Assistant, Univ. Waterloo, Canada (May 2016 Dec 2019).

 Researching Neural Network algorithms for Natural Language Processing, in collaboration with Noah's Ark Lab, Huawei.
- ♦ SR&ED Technical Writer, BeneFACT Consulting, Canada (May 2015 Apr 2017). Wrote 150+ SR&ED technical reports for over 50+ companies.
- ♦ Research Associate, Comp. Health Informatics Lab, Univ. Waterloo (Jan June 2014) Explored emotion modeling in human-computer interaction via continuous POMDPs.

Honors & Awards

- ♦ Ontario Graduate Scholarship, 2015 2016, 2017 2019.
- ♦ President's Graduate Scholarship, Univ. Waterloo, 2015 2016, 2017 2019.
- ♦ Huawei Distinguished Research Collaboration Award, 2015 2016.
- ♦ David R. Cheriton Graduate Scholarship, Univ. Waterloo, 2016 2018.
- ♦ Gold Medal (Mathematics), BSc. Hons., Lahore Univ. Management Sciences, 2010.