

Nabiha Asghar

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HIGHLIGHTS

- ◇ **Skills:** Machine Learning (ML), Deep Learning (DL), Natural Language Processing (NLP), Probability/Statistics, Python, AWS, Git, Linux, Technical Writing.
- ◇ **Work Experience:** DL/ML/NLP research collaborator at Huawei's *Noah's Ark Lab*; Data Scientist at ProNav Technologies.
- ◇ **Publications:** *Affective Neural Response Generation* (ECIR '18); *Deep Active Learning for Dialogue Generation* (*SEM '17); *Rational Decision-making for socially aligned agents* (UAI '15).

EDUCATION

- ◇ **University of Waterloo**, Waterloo, ON, Canada.
Ph.D. in Computer Science (Sept 2014 - Present), 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.

RELEVANT TECHNICAL SKILLS

- ◇ Machine Learning, Deep Learning, Natural Language Processing, Algorithm Analysis, Probabilistic Modeling, Technical Writing
- ◇ Python (including TensorFlow and PyTorch), Java, Bash, Linux, SQL, SVN, Git, AWS

SELECTED PUBLICATIONS

- ◇ N. Asghar, P. Poupard, J. Hoey, X. Jiang, L. Mou. *Affective Neural Response Generation*. 40th European Conference on Information Retrieval (ECIR), Mar 2018.
- ◇ N. Asghar, P. Poupard, X. Jiang, H. Li. *Deep Active Learning for Dialogue Generation*. 6th Joint Conference on Lexical and Computational Semantics (*SEM), Aug 2017.
- ◇ N. Asghar. *Automatic Extraction of Causal Relations from Natural Language Texts: A Comprehensive Survey*. arXiv preprint arXiv:1605.07895, May 2016.
- ◇ N. Asghar. *Yelp Dataset Challenge: Review Rating Prediction*. arXiv preprint arXiv:1605.05362, May 2016.
- ◇ N. Asghar, J. Hoey. *Intelligent Affect: Rational Decision Making for Socially Aligned Agents*. 31st Conference on Uncertainty in Artificial Intelligence (UAI), July 2015.

WORK EXPERIENCE

- ◇ **Data Scientist**, *ProNav Technologies Ltd.*, (Mar 2017 – Present).
Developing conversational AI for insurance [Part-time].
- ◇ **Graduate Research Assistant**, *University of Waterloo*, (May 2016 – Present).
Researching deep algorithms for NLP, in collaboration with Noah's Ark Lab, Huawei.
- ◇ **Data Science Consultant**, *Skillful.io*, (April 2016 – March 2017).
Consultant for NLP-based data science projects.

- ◇ **Research Associate**, *Comp. Health Informatics Lab, Univ. of Waterloo* (Jan – June 2014)
Developed a new algorithm for solving large continuous POMDPs.
- ◇ **Software Development Intern**, iHealth: Disease Surveillance System (May – Aug 2008).
Implemented clustering algorithms to investigate the causes of Tuberculosis prevalence.

HONORS &
AWARDS

- ◇ **Ontario Graduate Scholarship**, 2015 – 2016, 2017 – Present
- ◇ **Huawei Distinguished Research Collaboration Award**, 2015 – 2016.
- ◇ **David R. Cheriton Graduate Scholarship**, University of Waterloo, 2016 – Present.
- ◇ **President's Graduate Scholarship**, University of Waterloo, 2015 – 2016, 2017 – Present.
- ◇ **Gold Medal (Mathematics)**, BSc. Hons., Lahore Univ. of Management Sciences, 2010.