Shehzaad Dhuliawala

BIO
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I am a PhD student at ETH Zürich. Previously, I spent two years as a Research Engineer at Microsoft Research Montréal. I am interested in building reasoning systems that are explainable, trustable, and robust to distributional shifts. Broadly, I work on machine learning and study its application in various fields of natural language processing.

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EDUCATION
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ETH Zürich
PhD., Computer Science, 2020-?
Advisor: Prof. Mrinmaya Sachan, Prof. Thomas Hofmann

University of Massachusetts Amherst
M.S., Computer Science, 2016-2018
Advisor: Prof. Andrew McCallum

Courses: *Machine Learning, Deep Learning, Adv. Natural Language Processing, Reinforcement Learning, Adv. Algorithms, Logic, Software Engineering*
Visvesvaraya National Institute of Technology,
B.Tech., Computer Science and Engineering

AWARDS
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IBM PhD Fellowship Award 2021

RESEARCH &
PROFESSIONAL
EXPERIENCE
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Research Engineer   June 2018 - Present
Microsoft Research Montréal
-Worked on annotating and creating question answering datasets from product manuals
-Researched novel methods to train a system to answer user queries against product manuals using limited amounts of annotated data

Data Science Research Intern   June 2017 - Aug 2017
@WalmartLabs,   Sunnyvale, CA
-Experimented with methods to incorporate local weather information to improve item recommendations for Walmart e-commerce

Research Engineer   April 2015 - July 2016
Center For Indian Language Technologies - (IIT-B)
 Advisor: Prof. Pushpak Bhattacharyya
-Worked on an Indian Government funded project to build a cross-lingual information retrieval system for Indian Languages
-Performed research and development on builing resource efficient web-crawlers

Calibration of Machine Reading systems at Scale
(ACL 2022 findings)
Shehzaad Dhuliawala, Leonard Adolphs, Rajarshi Das, and Mrinmaya Sachan.
Case-based Reasoning for Better Generalization in Text-Adventure Games
(ICLR 2022)
Mattia Atzeni, Shehzaad Dhuliawala, Keerthi Muruganesan, Mrinmaya Sachan

TopiOCQA: Open-domain Conversational Question Answeringwith Topic Switching
(TACL 2021)
Vaibhav Adhlaka, Shehzaad Dhuliawala, Kaheer Suleman, Harm de Vries, Siva Reddy

A Simple Approach to Case-Based Reasoning in Knowledge Bases
(Accepted at **AKBC 2020**, **Best paper runner-up**)
Rajarshi Das, Ameya Godbole, Shehzaad Dhuliawala, Manzil Zaheer, Andrew McCallum

Multi-step Retriever-Reader Interaction for Scalable Open-domain Question Answering
(ICLR 2019)
Rajarshi Das, Shehzaad Dhuliawala, Manzil Zaheer, Andrew McCallum

Towards Domain Adaptation from Limited Data for Question Answering
(**ASRU 2019 Life-long Learning Workshop**)
T.J Hazen, Shehzaad Dhuliawala, Daniel Boies

Go for a Walk and Arrive at the Answer: Reasoning Over Paths in Knowledge Bases using Reinforcement Learning
(Accepted at **ICLR 2018**, Won **best paper** at **AKBC** at **Neurips 2017**)
Shehzaad Dhuliawala*, Rajarshi Das*, Manzil Zaheer, Luke Vilnis, Ishan Durugkar, Akshay Krishnamurthy, Alex Smola, Andrew McCallum