

# Devang Kulshreshtha

[\[Website\]](#) [\[Google Scholar\]](#) [\[LinkedIn\]](#)

## PERSONAL DETAILS

---

*E-Mail* devang.kulshreshtha@mail.mcgill.ca  
*Phone* +1 514 570 3895  
*Position* M.Sc. at McGill University, MILA Lab

## EDUCATION

---

**McGill University, MILA Lab** 2020 - present  
*M.Sc. in Computer Science (GPA: 4.0/4.0).*  
Supervisor - [Prof. Siva Reddy](#)  
**Indian Institute of Technology (BHU) Varanasi** 2014 - 2018  
*B.Tech. Computer Science (GPA: 9.11/10.0)*

## PUBLICATIONS

---

- **Back-Training excels Self-Training at Unsupervised Domain Adaptation of Question Generation and Passage Retrieval** [\[Paper\]](#)  
Devang Kulshreshtha\*, Robert Belfer, Iulian Vlad Serban, Siva Reddy  
*arXiv preprint, EMNLP 2021 submission*
- **How emotional are you? Neural Architectures for Emotion Intensity Prediction in Microblogs** [\[Paper\]](#) [\[Presentation\]](#) [\[Code\]](#)  
Devang Kulshreshtha\*, Pranav Goel\*, Anil Kumar Singh.  
*International Conference on Computational Linguistics (COLING) 2018*
- **NLPRL-IITBHU at SemEval-2018 Task 3: Combining Linguistic Features and Emoji pre-trained CNN for Irony Detection in Tweets** [\[Paper\]](#)  
Harsh Rangwani, Devang Kulshreshtha, and Anil Kumar Singh.  
*SemEval Workshop, NAACL-HLT 2018*
- **Feature Augmented Deep Neural Networks for Collaborative Filtering** [\[Paper\]](#)[\[Code\]](#)  
Devang Kulshreshtha.  
*IJCAI 2017 Workshop on AI Applications in E-commerce*
- **Prayas at emoint 2017: An ensemble of deep neural architectures for emotion intensity prediction in tweets.** [\[Paper\]](#)[\[Presentation\]](#)  
Pranav Goel\*, Devang Kulshreshtha\*, Prayas Jain and K.K. Shukla.  
*8th WASSA Workshop at EMNLP 2017 (Shared Task Winner!)*

## RESEARCH EXPERIENCE

---

**Korbit.AI - Research Intern** Sept 2020 - Current  
*Supervisors: [Prof. Siva Reddy](#) and [Dr. Iulian Vlad Serban](#)*

- Working on unsupervised domain adaptation for Question-Answer Generation from open educational resources, submitted ongoing work to EMNLP 2021.

**INRIA Labs, France - Research Intern** May 2018 - July 2018  
*Supervisors: [Prof. Alexandre Termier](#) and [Prof. Elisa Fromont](#)*

- Worked on discriminative pattern mining to identify subgraphs in DNNs frequently activated on wrong output. Adapted 'Activation Maximization' to identify such patterns, and infer mistakes in DNN using such activations. Improved results on MNIST, LeNet-5 by 1%.

- Developed an end-to-end search engine add-on from scratch that presents Pseudo-Documents and facets for resource scarce languages in case of transactional queries.

## SOFTWARE ENGINEERING EXPERIENCE

---

### **Amazon - Software Engineer**

Sept 2018 - Sept 2020

*New Delhi, India*

- Designed scalable monitoring system that tracks carrier invoices at various systems and report anomalies using rule-based detection mechanisms. Part of a major team initiative for migrating services from coral to NAWS.

### **Amazon - SDE Internship**

May 2017 - Jul 2017

*Project: Mobile Development of Onboarding Flow*

### **Busigence - Data Science Intern**

Dec 2016 - Jan 2017

*Project: Constructing deep learning framework for e-commerce recommender systems*

## TEACHING

---

### **Teaching Assistant**

Spring 2018

*Introduction to Artificial Intelligence*

Indian Institute of Technology (BHU) Varanasi

### **Teaching Assistant**

Fall 2016

*Introduction to Programming in C*

Indian Institute of Technology (BHU) Varanasi

## AWARDS AND SCHOLARSHIPS

---

- Received Kharusi Family International Science Fellowship 2021 for exceptional graduate students coming to McGill University from international locations.
- Selected for onsite interview at Zurich, Switzerland for Google AI Brain Residency Program 2019.
- Received 1500 USD from Microsoft Research India as Travel Grant to attend COLING 2018.
- Winning team in shared task on Emotion Intensity Prediction and invited for an oral talk at WASSA EMNLP 2017 conference at Copenhagen, Denmark.
- Among the top 10 finalists from India in the Amazon Code Wizard Challenge 2017.
- Received about USD 700 from IIT (BHU) Varanasi as Travel Grant to attend IJCAI 2017.

## RELEVANT COURSES

---

- **McGill University** - Representation Learning (IFT6135), Applied Machine Learning (COMP551), Natural Language Processing (COMP550), Mathematics for Computer Science (COMP761)
- **IIT Varanasi** - Probability and Statistics (MA202), Artificial Intelligence (CS202), Computer Vision (CS352)