Education	Carnegie Mellon University, Pittsburgh, PA			
	M.S. in Language Technologies, School of Computer Science, Advisors: Prof. Jaime Carbonell, Prof. Alan W. Black	August 2019		
	• GPA: 3.81/4.33			
	Indian Institute of Technology, Guwahati, India			
	B.Tech (Bachelors) in Computer Science and Engineering,	May 2013		
	• Department Rank: $4/68$ , GPA: $9.36/10$			
GRADUATE	Named Entity Recognition and Linking in Insurance domain.	2018 – present		
RESEARCH PROJECTS	<ul> <li>Implemented methods for efficient linking of 5 million people and 1 million vehicle records</li> <li>Designed heuristics for parsing important facts from unstruc- tured and noisy insurance claim logs</li> <li>Working closely with an auto-insurance company to develop a comprehensive network fraud detection tool.</li> </ul>			
	Evaluating Influence Functions for Memory Replay in Continual Learning	2019-present		
	<ul><li>Implemented a Memory-replay technique to overcome catas- trophic forgetting in neural networks.</li><li>Experimented with novel "Influence-function" based sampling techniques for selecting points to keep in memory.</li></ul>			
	Improving Machine Translation systems on Noisy Text.	2018 - 2019		
	<ul> <li>Generated synthetic noise while training the model to simulate noise on social media.</li> <li>Improved performance on French-English by 5 BLEU points.</li> </ul>			
	Language Modeling for Hindi-English Code Mixed Text.	2017 - 2018		
	<ul> <li>Implemented a multitask Neural language-model for code- mixed text with improved accuracy over state-of-the-art lan- guage model.</li> <li>Scraped and sanitized data from websites containing Hindi- English code-mixed text.</li> </ul>			
Work Experience	Software Engineer II, Microsoft, India	2013 - 2017		
	<ul> <li>Developed features for Microsoft Azure's Disaster Recovery Service On-Premises Agent</li> <li>Replication of VM-Ware Virtual Machines to Azure.</li> <li>Over-the-wire compression during data transfer reducing the cost of data transfer by half.</li> <li>Enabled telemetry for quicker diagnosis and mitigation of customer issues.</li> <li>Conceptualized Azure Cloud Service for cross-geo replication of Azure VMs.</li> </ul>			

PUBLICATIONS	<ul> <li>Singh, S., Vaibhav, Stewart, C. and Neubig, G. Improving Robustness of Machine Translation through Synthetic Noise NAACL 2019, (link).</li> <li>Singh, S., Chandu, K., Manzini, T. and Black, A. W. Language informed modeling of code-switched text. ACL Workshop on Code-Switching 2018, (link).</li> <li>Singh, S., Awekar, A. Incremental shared nearest neighbor density-based clustering. ACM CIKM 2013, (link).</li> </ul>			
Graduate Coursework	<ul> <li>Algorithms for NLP</li> <li>Neural Networks for NLP</li> <li>Neural Machine Translation</li> <li>Topics in Deep Learning</li> </ul>	<ul> <li>Dialogue Systems</li> <li>Introduction to Machine Learning</li> <li>Probability and Mathematical Statistics</li> </ul>		
Relevant Skills	Programming: Deep Learning: Virtualization: Version Control: Other tools:	Python, Java, C/C++ Pytorch Hyper-V Virtual Machine, Virtual Hard Disk, Azure REST APIs GitHub, Team Foundation Server Pandas, Numpy, Scikit-Learn		