


## Purva Tendulkar

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<b>RESEARCH INTERESTS</b>	<i>Deep Learning, Computer Vision, Natural Language Creative AI, Music Information Retrieval</i>	
<b>EDUCATION</b>	<b>School of Interactive Computing, Georgia Tech</b>	2018-2020
	<i>M.S. in Computer Science</i> Advised by Prof. Devi Parikh CGPA : 4.0/4.0	
	<b>College of Engineering Pune (COEP)</b>	2014-2018
	<i>B.Tech. in Computer Science</i> CGPA : 9.14/10.0	
<b>PUBLICATIONS</b>	<b>SOrT-ing VQA Models: Improving Consistency via Gradient Alignment</b> <i>Preprint (under review)</i> S. Dharur, <u>P. Tendulkar</u> , D. Batra, D. Parikh, R. Selvaraju	
	<b>Feel The Music: Automatically Generating A Dance For An Input Song</b> <i>International Conference on Computational Creativity (ICCC) 2020 (Oral)</i> <u>P. Tendulkar</u> , A. Das, A. Kembhavi, D. Parikh	
	<b>SQuINTing at VQA Models: Interrogating VQA Models with Sub-Questions</b> <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2020 (Oral)</i> R. Selvaraju, <u>P. Tendulkar</u> , D. Parikh, E. Horvitz, M. Ribeiro, B. Nushi, E. Kamar	
	<b>Trick or TReAT: Thematic Reinforcement for Artistic Typography</b> <i>International Conference on Computational Creativity (ICCC) 2019 (Oral)</i> <u>P. Tendulkar</u> , K. Krishna, R. Selvaraju, D. Parikh	
<b>AWARDS &amp; RECOGNITION</b>	<b>Finalist:</b> Microsoft AI Residency Program & Facebook AI Residency Program (2020) (cancelled due to COVID-19)	
	<b>Winner:</b> Best Presentation Award at ICCV'19	
	<b>Recipient:</b> Pratibha Eaton Excellence Award for women engineering students (2017)	
	<b>Finalist:</b> Computer and Science Quiz organized by Computer Society of India (2011)	
	<b>Recipient:</b> Maharashtra Talent Search Award (2009)	
<b>TECHNICAL SKILLS</b>	<b>Programming Languages:</b> Python, C, C++, HTML, CSS, PHP, JavaScript <b>Deep Learning Frameworks:</b> PyTorch, TensorFlow	
<b>RELEVANT COURSES</b>	<b>Graduate Coursework</b> <ul style="list-style-type: none"><li>• Deep Learning • Machine Learning • Natural Language Processing</li><li>• Computer Vision • Introduction to Graduate Algorithms</li></ul>	
	<b>Selected Undergraduate Coursework</b> <ul style="list-style-type: none"><li>• Natural Language Processing • Linear Algebra</li><li>• Experimental Design and Data Analysis • Data Structures</li><li>• Design and Analysis of Algorithms • Discrete Structures and Graph Theory</li><li>• Computer Algorithms in Signal Processing • Advanced Unix Programming</li></ul>	

<b>EXPERIENCE</b>	<b>University of California, San Diego</b>	Aug 2020-ongoing
	<i>Research Staff, mentored by Xiaolong Wang</i>	
	Developing a deep learning based system which can model long-term dynamics of objects in Facebook's PHYRE environment, with applications to intuitive physics-simulation systems.	
	<b>Georgia Institute of Technology</b>	Aug 2018-Aug 2020
	<i>Graduate Research Assistant, mentored by Devi Parikh</i>	
	Developed personable AI including a creative application that can assist designers by automatically generating doodles given any input word and theme, and a dance application in which a user can provide any music as input to obtain dance visualizations which are synced to the beat and correlated to the music.	
	<b>AiBee</b>	May 2019-Aug 2019
	<i>Research Intern, mentored by Chunhui Gu and Juan Carlos Nieves</i>	
	Developed an LSTM-based model that can detect events based on trajectories of people in a shopping mall and learns to distinguish between staff and customers.	
	<b>Nanyang Technological University, Singapore</b>	May 2017-Aug 2017
	<i>Research Assistant, mentored by Arvind Easwaran</i>	
	Modeled an attack of Stuxnet – a notorious worm that affects Cyber-Physical Systems and performed extensive vulnerability analysis at different levels of abstraction in the Berkeley Metropolis environment.	
	<b>Indian Institute of Technology</b>	May 2016-Aug 2016
	<i>Software Developer, mentored by Varsha Apte</i>	
	Developed EvalPro - Django-based framework for automatically evaluating programming assignments of courses at IIT Bombay. Worked as a full-stack developer to add engaging features for both instructors and students.	
<b>REFERENCES</b>	<ul style="list-style-type: none"> <li>• Prof. Devi Parikh, Georgia Tech (email: parikh@gatech.edu)</li> <li>• Prof. Xiaolong Wang, UC San Diego (email: xiw012@ucsd.edu)</li> <li>• Dr. Aniruddha Kembhavi, AI2 (email: anik@allenai.org)</li> <li>• Dr. Chunhui Gu, AiBee Corp. (email: chgu@aibee.com)</li> <li>• Dr. Juan Carlos Nieves, Stanford University (email: jniebles@cs.stanford.edu)</li> <li>• Prof. Arvind Easwaran, NTU (email: arvinde@ntu.edu.sg)</li> </ul>	