Pratik Vaishnavi

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EDUCATION

Stony Brook University, *Stony Brook, NY*
PhD in Computer Science — *Aug. 2018 – present.*
GPA: 3.79 / 4.00

Stony Brook University, *Stony Brook, NY*
M.S. in Computer Science — *Aug. 2016 – May. 2018*
GPA: 3.70 / 4.00

Sardar Vallabhbhai National Institute of Technology, *Surat, India*
B.Tech in Electronics Engineering — *Jul. 2012 – May. 2016*
GPA: 7.43 / 10.00

EXPERIENCE

Graduate Teaching Assistant, *Stony Brook University*
CSE 508: Network Security — *Aug. 2019 – present.*
Course Instructor: Dr. Amir Rahmati

Graduate Teaching Assistant, *Stony Brook University*
CSE 527: Introduction to Computer Vision — *Jan. 2019 – May. 2019*
Course Instructor: Dr. Roy Shilkrot

Graduate Teaching Assistant, *Stony Brook University*
CSE 512: Machine Learning — *Aug. 2018 – Dec. 2018*
Course Instructor: Dr. Minh Hoai Nguyen

Research Assistant, *Stony Brook University*
Data Science Lab
Advisor: Dr. Steven Skiena — *Jun. 2017 – May. 2018*

- Developed video analysis algorithms to analyze freight train movements using a network of self-deployed cameras.

Research Intern, *Indian Institute of Technology, Kharagpur*
Advisor: Dr. Rajeev Ranjan Sahay — *May. 2015 – Jul. 2015*

- Developed deep learning methods to classify gestures in Indian classical dance.

PUBLICATIONS

Transferable Adversarial Robustness using Adversarially Trained Autoencoders — *Sept, 2019*
arXiv preprint arXiv:1909.05921

Robust Classification using Robust Feature Augmentation — *May, 2019*
arXiv preprint arXiv:1905.10904

Robust pose recognition using deep learning — *Jan, 2017*
Proceedings of International Conference on Computer Vision and Image Processing, 93-105

Nrityabodha: towards understanding indian classical dance using a deep learning approach — *Sept, 2016*
Signal Processing: Image Communication 47, 529-548

MAJOR PROJECTS

Temporal action proposals in long untrimmed videos — CSE 599: MS Thesis
Advisor: Dr. Minh Hoai Nguyen — *Jun. 2017 – May. 2018*

- Worked on deep learning methods used for the task of detecting human action in long untrimmed video sequences.

Multi-layer Neural Composer for Personalized Product Descriptions
Advisor: Dr. Niranjan Balasubramanian — *Feb. 2017 – Dec. 2017*

- Investigated neural generation methods as a scalable approach for delivering personalized descriptions for products on E-commerce websites.

SKILLS & OTHERS

Languages: Python, C, C++
Deep Learning: Tensorflow, Keras, PyTorch
Others: Matlab, LaTeX, Github, OmniGraffle