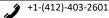
Pratik Musale



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Objective

To apply my background knowledge of usable privacy to design efficient software and IoT solutions for numerous domains where a user can effectively understand the sensing environments and their implications.

Education

Ph.D. in Computer Science (2019-Present)

University of Pittsburgh Advisor: Professor Adam Lee

M.S. in Computer Science (Aug 2018)

Stony Brook University

Advisor: Professor Bong Jun Choi

Thesis: Lightweight Authentication for IoT Ecosystem

B.E. in Electronics and Telecommunication (Mar 2015)

University of Pune (Savitribai Phule Pune University)

First Class with Distinction

Appointments

Department of Computer Science, University of Pittsburgh Graduate Teaching/Research Assistant (June 2020 – Present)

Ph.D. Fellowship (Aug 2019 – May 2020)

Department of Computer Science, Stony Brook University

Graduate Teaching/Research Assistant (August 2016 – May 2018)

Work Experience

Navigate Consulting (Jan 2019 – June 2019)						
	To investigate the feasibility of single sign-on feasibility for the Industry IoT ecosystem.					
	Designing prototypes for the deployment of IoT devices on field.					
Spectro	a Televentures (2015 – 2016)					
	Maintenance of Radio Towers for Nokia Network's customer Vodafone.					
	Installation and commission of new 3G and 4G network.					

Academic Projects

Gait Authentication (2016—2018)

Identifies	walking	nattern	of lisers	using	Random	Forest Classifier	r
identifies	waikiig	pattern	UI USEIS	using	Nandoni	i di est ciassille	i •

☐ The system utilizes smaller number of features for profiling and eliminates the step cycle detection.

Accident Prevention System Cars (2014)

☐ The system continuously monitors to check for anomalies in driving pattern, media volume, and detects driver's alcohol level pre-driving.

☐ Accider ☐	Uses the ultrasonic sensor to detect at Location and Detection (2013) This project utilizes GPS and GSM tec The detection part was created using	hnology to facilitate emergency messages on accident occurrence.				
Publica	ation					
[1]		ust TEE?: Exploring the Impact of Trusted Execution by Norms." Proceedings on Privacy Enhancing Technologies 3				
[2]	Duin Baek, Pratik Musale , and Jihoo User Authentication Framework Usir	n Ryoo. 2019. Walk to Show Your Identity: Gait-based Seamless ng Deep Neural Network. In The 5th ACM Workshop on Wearable 19). Association for Computing Machinery, New York, NY, USA, 5424.3329666				
[3]		S. S. Woo and B. J. Choi, "You Walk, We Authenticate: a Based on Gait in Wearable IoT Systems," in <i>IEEE Access</i> , vol. 7, 563				
[4]	P. Musale , D. Baek and B. J. Choi, "Lightweight gait based authentication technique for IoT using subconscious level activities," <i>2018 IEEE 4th World Forum on Internet of Things (WF-IoT)</i> , Singapore, 2018, pp. 564-567, doi: 10.1109/WF-IoT.2018.8355210.					
Skills						
Languages: Python, Java, JavaScript, C, MATLAB		Framework: Android Programming, Arduino				

Software:

IBM SPSS

Database:

MySQL, NoSQL