Deepti Gupta

(814) 321-4375
deepti.mrt@gmail.com
https://www.linkedin.com/in/deeptigupta4/

CAREER OBJECTIVE: Contribute to the field of Cyber Security through high impact real-world research, consistent dedication, and hard work.

EDUCATION:

Ph.D. in Computer Science (Cyber Security)   2016-Present
University of Texas at San Antonio, San Antonio, TX, USA
Research Area: Cyber Security, Access Control Models, Formal Analysis, Secure Cyber Physical Systems, Remote Patient Monitoring, Internet of Things, AI and Machine Learning Assisted Security Solutions, Federated Deep Leaning, Game Theory.

Master of Science - Computer Science   2014-2016
Specialization: Software Engineering & Computer and Information Security
University of Texas at San Antonio, San Antonio, TX, USA
GPA: 3.75/4

Master of Technology – Computer Engineering   2007-2009
Shobhit University, Meerut, India
GPA: 9.65/10

Master of Science – Mathematics   2004-2006
Chaudhary Charan Singh University, Meerut, India
Percentage: 80%

Bachelor of Science   2001-2004
Durga Prasad Baljeet Singh College, Anoopshahr, India
Percentage: 74%

EXPERIENCE:

St. Edward's University, Austin, TX, USA   2017 – 2019
Position: Adjunct Faculty
Courses Taught:
COSC 1301 – Introduction to Problem Solving and Computing
COSC 1318 – Quantitative Applications Software for PCs
COSC 3336 – Programming Languages
COSC 2316 - Intro-Algorithmic Problem Solv
Responsibilities:
- Delivered lectures to undergraduate students.
- Designed and graded exams, assignments and quizzes.

University of Texas at San Antonio, TX, USA   2016 - 2017
Position: Teaching Assistant
Courses Taught: CS 2233 Discrete Mathematics, CS 3723 Programming Languages
Recitation: Data Structures, Introduction of Programming
Responsibilities:
- Delivered lectures to undergraduate students.
- Graded exams, assignments and quizzes.

Shobhit University, Meerut, India   2007 - 2010
Position: Assistant Professor
Courses Taught: Analysis of Algorithms, Discrete Mathematics, Neural Networks, Programming Languages, and Data Structures.

Responsibilities:
- Presented university-level courses in Computer Science and Technology to university students and advise the students in associated programs.
- Conduct lectures to undergraduate and graduate students on computer science, research and compile bibliographies of specialized materials for outside reading assignments.
- Plan, coordinate and participate in special events involving university and community officials.

PUBLICATIONS AND POSTERS:

- D. Gupta, S. Bhatt, M. Gupta, O. Kayode, A. Tosun "Access Control Model for Google Cloud IoT", the 6th IEEE International Conference on High Performance and Smart Computing (IEEE HPSC 2020), May 25-27, Baltimore, USA.
- D. Gupta, O. Kayode, S. Bhatt, M. Gupta, A. Tosun "Learner's Dilemma: IoT Devices Training Strategies in Collaborative Deep Learning", the 6th IEEE World Forum on the Internet of Things (WF-IoT, 2020), New Orleans, USA.
- D. Gupta, S. Bhatt, M. Gupta, A. Tosun "Future Smart Connected Communities to Fight COVID-19 Outbreak", Elsevier Internet of Things Journal 2020.
- D. Gupta, P. Bhatt, S. Bhatt "A Game Theoretic Analysis for Cooperative Smart Farming", submitted at SmartFarm-2020 in conjunction with the 2020 IEEE International Conference on Big Data (IEEE Big Data 2020), Atlanta, GA, USA, Dec 10-13, 2020.
- D. Gupta, S. Bhatt, P. Bhatt, M. Gupta, A. Tosun, "Game Theory Based Privacy Preserving Approach for Collaborative Deep Learning in IoT", Submitted at Deep_IoT2021: Deep learning for security and privacy preservation in IoT, Springer Book Chapter.
- O. Kayode, D. Gupta, A. Tosun, "Towards a Distributed Estimator in Smart Home Environment", the 6th IEEE World Forum on the Internet of Things (WF-IoT, 2020), New Orleans, USA.
- D. Gupta, R. Boppana, "A Survey of Machine Learning Algorithms to Detect Network Attacks", COS Research Conference 2017, University of Texas at San Antonio, San Antonio, USA.
- D. Gupta, A. Muzahid, "A Novel Exit Policy using Machine Learning for Transactional Memory", 7th Annual UTSA Architecture, Business, Engineering and Science Students' Conference, 2013, University of Texas at San Antonio, San Antonio, USA.
- D. Gupta, S. Bhatt, "Enabling Smart Communities: Cloud-Enabled IoT Use Cases in AWS IoT and Google IoT Platforms (Hands-on workshop)" Accepted at Women in Technology Virtual Summit Fall 2021.

AWARDS AND HONORS:

- Travel Grant for CyberW workshop at the 10th ACM Conference on Data and Application Security and Privacy, Virtually 13th March, 2020.
- First Runner up poster award at Women in Cyber Security' 2020 (WiCySv20).
- TAPIA Scholarship award to attend ACM Richard Tapia Celebration of Diversity in Computing Conference Scholarship, 16th-18th September, 2020.
- iMentor Scholarship award to attend iMentor workshop and ACM Conference on Computer and Communications Security (CCS) 2020.

SCHOLARLY AND PROFESSIONAL SERVICES:

- "Security & Privacy" Track Committee Member at Grace Hopper Celebration of Women in Computing (GHC), 2020.
- Program Committee Member of Women in Cyber Security (WiCyS), 2020.
- Program Committee Member of SaT-CPS 2021 in conjunction with ACM CODASPY 2021.