VENKATA PRAVEEN KUMAR MADHAVARAPU

Ph.D. in Computer Science

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EDUCATION

Doctor of Philosophy in Computer Science
Missouri University of Science & Technology
📅 Aug 2017 – Dec 2021   GPA: 3.6/4.0

Master of Science in Computer Science
Southern Illinois University Carbondale
📅 Aug 2015 – Dec 2016   GPA: 4.0/4.0

Bachelor of Science in Computer Science
VR Siddhartha Engineering College
📅 Aug 2011 – Apr 2015   GPA: 8.6/10.0

EXPERIENCE

Graduate Research Assistant
Southern Illinois University Carbondale
📅 Aug 2015 – Dec 2016   📍 Illinois, USA

- A Novel Three Phase Symmetric Cipher Technique

Graduate Research Assistant
Missouri University of Science & Technology
📅 Aug 2017 – Dec 2021   📍 Missouri, USA

- Detecting Stealthy injection of False Data in Smart Grid
- Defense of IOT data against Adversarial Machine Learning Techniques like Evasion Attacks

Graduate Teaching Assistant
Southern Illinois University Carbondale
📅 Aug 2015 – Dec 2016   📍 Illinois, USA

- Cryptography and Security, Linux & Algorithms

Graduate Teaching Assistant
Missouri University of Science & Technology
📅 Aug 2017 – Dec 2021   📍 Missouri, USA

- Advanced Algorithms, Networking & MATLAB

ACADEMIC PROJECTS

Big Data: A Robust Trust Management Model in Vehicular Ad-hoc Networks (VANETs)

Graph Theory Application: A Novel Algorithm to Reduce Traffic Congestion in Road Networks.

Cryptography: Implemented Data Encryption Standard (DES) application in Java for file encryption.

RESEARCH PUBLICATIONS

Attack Context Embedded Data Driven Trust Diagnostics in Smart Metering Infrastructure
ACM Transactions on Privacy and Security (TOPS)
📅 Jan 2021

A Diversity Index based Scoring Framework for Identifying Smart Meters Launching Stealthy Data Falsification Attacks
ACM ASIA Conference on Computer and Communications Security (ASIACCS)
📅 May 2021

Generative Model based Detection of Evasion Attacks in Smart Grid
IEEE SmartGridComm
📅 Aug 2021

A Highly Secured Three-Phase Symmetric Cipher Technique
International Journal of Computers and Applications
📅 Dec 2018

INTERESTS

Data Analytics   Machine Learning   Security Models for IoT Data   Algorithms   Programming   Graph Theory   Deep learning   Software Development

SKILLS

Programming languages: Python, MATLAB, Java, C++, SQL.

Database: Spark, MongoDB, Pig, Apache HBase.

Cloud Services: Amazon Web Series (AWS)

Machine Learning: Scikit-learn, Pandas, Keras

AWARDS

Academic Achievement Award
Missouri University of Science & Technology
📅 May 2018