Sriram S

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Research Interest

Computational thinker with theoretical and practical experience in Linear algebra, Optimization, Data Mining, Machine Learning, Deep Learning and Dimensionality Reduction Methods. Working on applying Machine Learning for various problems in the fields of Cyber Security using distributional and parallel frameworks. Also, I work in Natural Language Processing, Signal, Image Processing and Bio-medical projects.

Education

Master of Technology, Computational Engineering and Networking   June 2018- May 2020
Amrita Vishwa Vidyapeetham, Coimbatore.
CGPA 8.53

Bachelor of Technology, Computer Science Engineering   June 2012- May 2016
SASTRA University, Kumbakonam.
CGPA 7.1

M.Tech Research Summary - Cyber Security and NLP

- Submitted a paper titled "Deep Learning Based Two-Level Framework for Domain Name Systems Data Analysis. IEEE Transactions on Information Forensics and Security." (under-review). (IF: 5.824).

- Manuscript title "A Survey of Applications of Deep Learning for Cyber Security" under-preparation for IEEE Communications Surveys Tutorials (IF: 20.23).

- Published a IEEE conference paper titled "A Deep Learning Framework for Domain Generation Algorithms Prediction Using Long Short-term Memory." (In-Press)

- Paper ready for submission titled "Towards Evaluating Robustness of Classical machine learning classifiers for Network Intrusion Detection System (NIDS)."

- Paper ready for submission titled "Towards Evaluating Robustness of Classical machine learning classifiers for Botnet detection in Internet of Things (IoT) systems."

Academic and Mini Projects

- A Cluster based False and Multi-Secret Steganography.

- A CNN Imagenet based MURA - Biomedial Image classification.

- Home automation system using Raspberry Pi via Bluetooth.

- Ultrasonic Insect Robot using Arduino.

- Voice controlled Robotic hand using Raspberry Pi.

Achievements and Leadership Activities

- Received 1st Prize in the event Code Genix, of Theta 2K14, a National Level Tech Fest held at SASTRA University on 28, 29 & 30 of March, 2014.

- Received 2nd Prize in the event Reverse Coding, of Theta 2K14, a National Level Tech Fest held at SASTRA University on 28, 29 & 30 of March, 2014.

- Presented a poster called Virtual Music Instruments Interface National Conference on Advanced Computing, held at SASTRA University on 18 of January, 2013.

- Organized an event Reverse Coding, in Theta'15, a National Level Tech. Fest held at SASTRA University on 27, 28 & 29 of March, 2015

Technical Skills

- Languages: C, C++, Java, Python.
- Web development: Html, CSS, JavaScript, JSON, JQuery, Php, Bootstrap, XML.
- Tools and IDE: Matlab Eclipse, Android studio, Netbeans, Adobe Flash, Animate CC, MS Excel, Photoshop Word, MS Excel, Photoshop.
- Operating System: Windows, Linux(Ubuntu, CentOS).

References
Dr. Soman KP
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Dr. Mamoun Alazab, Senior member IEEE,
Associate Professor, College of Engineering, IT and Environment
Charles Darwin University, Australia.
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