Simran K

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Education

2018 - Present	**M.Tech Computational Engineering and Networking**, *Amrita University*, Coimbatore, Tamil Nadu, **CGPA: 8.78**.
2014- 2018	**B.E in Information Technology**, *MVSR College*, Hyderabad, Telangana - **81.9 %**.

Topics of Interest

- **Machine Learning**
- **Deep Learning**
- **Data Mining**
- **Dimensionality Reduction Methods**
- **Reinforcement Learning**
- **Natural Language Processing**
- **Data Mining**
- **Cyber Security**
- **Linear Algebra for Data Sciences**
- **Theory of Optimization**
- **Image Processing**

Technical Skill

Languages: C/C++, Python, Java, MATLAB, Weka.

Web development: HTML, CSS, JavaScript, Php, XML.

Tools and IDE: Android Studio, MITAppInventor, Scribble, Matlab, MS Excel

Machine learning: Scikit-learn

Deep learning: Keras, TensorFlow.

Database: MySQL

OS: Linux, Windows

Mini Projects

2019	**Comparison of Deep learning frameworks for Fingerprint Classification.**
2019	**Deep learning framework for classification of health condition using ECG data**
2019	**Comparison of Deep learning architectures for Ear recognition.**
2018	**Smart Blind Stick using Arduino.**
2018	**Artificial Intelligence based Smart Mirror.**

Research Domains

Applications of deep learning, machine learning in the field of cyber security and biomedical.

Big Data Analystics

Natural Language Processing

Digital Image Processing

Cyber security

Internet of Things

Papers

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2019 **Cost –Sensitive Deep Learning Framework and Visualization for Malware Classification** in 5th IEEE International Conference on Advanced Computing & Communication Systems,2019 (accepted).

2019 **Deep Learning and Visualization for Botnet Detection in the Internet of Things of Smart Cities** submitted to Future Generation Computer System (under review).

2019 **A Survey of Applications of Deep Learning for Cyber Security** for IEEE Communications Surveys Tutorials (IF: 20.23) (ready for submission).

2019 **Deep Learning Approach for Intelligent Named Entity Recognition of Cyber Security** (ready for submission).

2019 **Deep learning Approach for Enhanced Cyber Threat Indicators in Twitter Stream** (ready for submission).

2019 **Deep learning based Framework for Handling Imbalance In DGA, Email and URL Data Analysis** (ready for submission).

Certifications

2018 **Machine Learning (Coursera Certificate course)**, *by Andrew Ng*, Adjunct Professor, Stanford University.

ongoing **Improving Deep Neural Networks: Hyper parameter tuning, Regularization and Optimization (Coursera Certificate course)**, *by Andrew Ng*, Adjunct Professor, Stanford University.

References

Dr.K P Soman, Amrita University, Coimbatore, Tamil Nadu, kp_soman@amrita.edu.
Professor and Head, Center for Excellence in Computational Engineering and Networking
http://nlp.amrita.edu/somankp/

Ms.Sowmya V, Amrita University, Coimbatore, Tamil Nadu, v_sowmya@cb.amrita.edu.
Assistant Professor, Department of Computational Engineering and Networking
http://nlp.amrita.edu/sowmyav/

Dr. Mamour Alazab, Charles Darwin University, Australia, alazab.m@ieee.org
Senior member IEEE, Associate Professor, College of Engineering, IT and Environment
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Mr. Vijay Krishna Menon, Amrita University, Coimbatore, Tamil Nadu,vijaykrishnamenon@gmail.com
Assistant Professor, Department of Computational Engineering and Networking
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