

Ravitha Rajalakshmi.N

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**Looking for opportunities to enhance my knowledge in Artificial Intelligence.
Motivated towards building innovative solutions for the betterment of Mankind**

Academic Qualification

M.E(Biometrics and Cyber Security) * *Currently Pursuing part-time PhD in the domain "Medical Image Analysis using Deep Learning"*

WORK EXPERIENCE

Assistant Professor, PSG College of Technology, Coimbatore, India

May 2013 - Current

- **Co-principal Investigator in UGC sponsored project**
Created a framework for user authentication using Touch Dynamics for mobile device
- Mentored a student project on **Intelligent IDS using IoT** which received a cash reward from PSG - STEP
Proposed an idea to enable intelligent automated patch update for the systems in the network
- Tutor at Dept of Information Technology. Handled courses on Image Processing and Deep Learning

Assistant Professor, Coimbatore Institute of Technology, Coimbatore, India

May 2012 - May 2013

- Prepared lesson plans for course Network Programming
- Handled programming languages for Non-CS students

PUBLICATIONS

1. Presented a paper on "**Active Learner Approach for Programming Related Subjects**" at the Annual Conclave on Academic Research 2019, March 2019.
2. Ravitha Rajalakshmi N, PavithraDevi N S, Vidhyapriya R, "**Automated Detection of the severity of Diabetic Retinopathy using Pre-trained CNN**", National Conference on Research and Challenges in IT, May 2017.
3. Manaj Kumar Voona, Ravitha Rajalakshmi N, "**Touchless Palm Biometrics**", National Journal of Technology, Vol.11 No.4, pp. 17-22, Mar 2016.
4. K. V. Hari Krishnan, Ravitha Rajalakshmi N, "**Cost Efficient Security Solution for the Internet of Things**", National Journal of Technology, Vol.12 No.2, pp. 32-37, June 2016.
5. Manaj kumar voona, Ravitha Rajalakshmi N, "**Lead Prioritization Modeling For An Insurer**" Proceedings of Conference on Innovative Technologies in Information, Biometrics and Security (CITIBS - 2015),pp.no: 254 - 259 April 24 - 25, 2015.
6. Senthilprabha R, VidhyaPriya R, Ravitha Rajalakshmi N, "**Performance analysis for a Touch dynamic authentication system with reduced feature set using neural networks**", IETE Journal of Research, Sep 2015.
7. Ravitha Rajalakshmi N, SenthilPrabha R, "**A secured authentication framework for touch screen featured mobile devices**" in the proceedings of the International Conference on Innovations in Computers, Information and Communication, January 5-7, 2011.

Patent : Filed a Patent titled "**System and Method for Continuous Touch dynamic User Authentication**" with IPO
[Patent Application number: 201641041414]

EDUCATION

- Postgraduate (M.E Biometrics and Cyber Security) at PSG College of Technology ,Coimbatore, India
Image Processing, Digital Forensics, Ethical Hacking, Wireless Networks, Intrusion Detection System
- Undergraduate (Information Technology) at Sri Krishna College of Engineering and Technology, Coimbatore, India
Data Mining, System Software, Computer Architecture, Operating Systems, Web Technology

COMPUTER SKILLS

Advanced : MATLAB, C, C++, JAVA

Intermediate : PYTHON (Libraries : Keras, numpy, matplotlib, pandas, opencv)

CERTIFICATIONS

1. Qualified “**Tamil Nadu State Eligibility Test for Assistant Professor** ” held on **April 23, 2017** in “Computer Science and Application”
2. Completed a MATLAB Training Course “**Deep Learning on Ramp**” on Mar 30, 2019.
3. Completed a course on “**Fundamentals of Deep Learning for Computer Vision**” offered by NVIDIA DLI in Jun 2019.
4. Completed NPTEL Courses on “**Deep Learning – Part II**” and “**Designing Learner Centric MOOC**” on Jun 2019.

AWARDS AND ACHIEVEMENTS

- *Participated in MICCAI CPM contest based challenge on Combined Radiology and Pathology for detecting brain tumors. The proposed model had a standing at fourth place with an accuracy of 75%*
Github link : <https://github.com/Ravitha89/Combined-Pathology-and-Radiology>
- **Best Outgoing Student award** (M.E BCS) - P.S.G College of Technology
- **Best Project Award** (M.E BCS) for the project titled “Touch Dynamic Based Authentication for Mobile Devices” - P.S.G College of Technology
- **Academic Excellence Award** (B.Tech I.T) - Sri Krishna College of Engineering and Technology.
- **University Rank Holder** (B.Tech I.T) – Anna University
- **Cash Reward** in Coding competition organized by SHELL Company
- **Mentor - Technovator project “Intelligent IDS using IoT”.**
- Guided student projects on “Societal Issues” in National Science and Technology Fair 2019 Conducted in Codissia, Coimbatore (29 Aug – 31 Aug, 2019).
- Participated in DST & Texas Instruments India Innovation Challenge Design Contest 2019.

TALKS

- “**Deep Learning Workflow in Keras**” in one week FDP on Computer Vision and Deep Learning: A Research Perspective – August 28, 2019.
- “**Technology in Classroom: Google Classroom**” –Technical Seminar – PSG College of Technology – July 19, 2019.
- “**File System and Memory Forensics**” in Two days value added course on Cyber Security and Forensics – PSG Institute of Technology and Applied Research – June 24-25, 2019
- “**Machine Learning for Data Analysis**” in one week FDP on Big Data Analytics – PSG College of Technology – Nov 29, 2018.
- “**Moving Beyond Business Intelligence**” in Ninth National Conference on Computing, Communication and Information Systems – NCCIS -2017 - Sri Krishna College of Engineering and Technology - Feb 24, 2017.
- “**Machine Learning using MLlib in Spark**” in one week FDP on Hadoop and Cloud Computing - PSG College of Technology - Sep 12, 2016.
- “**Introduction to Spark Framework**” in one week FDP on Big Data Analytics - PSG College of Technology - July 27, 2016.

- Hands-on Training classes on "**Setting up Single node Hadoop cluster**" in FDP - PSG College of Arts and Science - July 16, 2016.
- "**Recommendation Systems**" in Two days FDP on Data Mining using Orange and R tools - Sri Krishna College of Engineering and Technology - Mar 13, 2015.