

Dr. R. Abinaya,

Assistant Professor

Dept. of Computer science & Engg.

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PROFESSIONAL SUMMARY

Assistant Professor (Computer Science & Engineer) with nearly 2.5 years of experience teaching undergraduate courses. Have handled many in-demand subjects such as of IoT (Internet of Things), Data Sciences and Artificial Intelligence. Actively participate in continued learning through conferences and professional research. Believe in students' abilities to learn and inherent thirst for knowledge with the right environment.

WORK EXPERIENCE

- **Assistant Professor**

Seshadri Rao Gudlavalleru Engineering College
Department of Computer Science and Engineering,
Gudlavalleru, Vijayawada - 521356

Feb 2019 – Present (2 yrs 8 mns)

- **Subjects/Labs Handled**

- **Subjects:** IoT (Internet of Things), Data Science, Artificial Intelligence, Social Network, Web Services, UML & DP, Computer Graphics
- **Lab:** UML & DP lab

- **Work Summary**

- Conducted an workshop titled “**Blueprism Foundation Training Program**”, organized by GEC collegepartnered with Eduskills.
- Have prepared the learning material and presentation slides for the **IoT (Internet of Things)** subject
- Working in-parallel as an **Assistant Warden** in the GEC ladies hostel for last 2.8 years.
- Have carried out several criteria works for NBA and NAAC accreditations
- Completed an in-college 6 months English proficiency training
- Completed 8- All **NITTTR** Assistant level Course.

- **Industrial training**

- Completed a “**Blueprism Foundation Training Program**”, in Eduskills.
- Completed a “**Blueprism Developer Training Program**”, in Eduskills.
- Completed a “**Industrial Training for BSNL Job aid for Field Training**” in Industrial Training for Faculty RGMTC, BSNL, Meenambakkam, Chennai.

ACADEMICS

- **DOCTORATE IN PHILOSOPHY**

Ph.D. - Computer Science and Engineering (**Full time**) 2015 - 2020
Annamalai University, Chidambaram, Cuddalore, TN

- **POST-GRADUATION**

M.E. - Computer Science and Engineering in **First Class** 2012 - 2014
Annamalai University, Chidambaram, Cuddalore, TN **OGPA: 7.56**

- **UNDER-GRADUATION**

B.E. - Computer Science and Engineering in **First Class** 2008-2012
Annamalai University, Chidambaram, Cuddalore, TN **OGPA: 7.65**

- **SCHOOLING**

HSC (Class 12 – Biology) 2007 -2008
Vivekananda Matriculation and Hr. Sec. School, Sirkali, Nagai (Dt), TN **Percentage: 72.00**

SSLC (Class 10 Tamil Nadu State Board Exam) 2006 -2007
Vivekananda Matriculation and Hr. Sec. School, Sirkali, Nagai (Dt), TN **Percentage: 69.00**

PROJECTS

- “Investigations using Machine Learning Techniques in Biometric Application” in MATLAB, PYTHON during **Ph.D.**
- “User Generated Multimedia Content sharing in P2P Network using Peer Simulation” in PEER Simulation during **PG.**
- “Efficient P2P video sharing scheme in Online social network” in NS2 Simulation during **PG.**
- “Region Growing Techniques for MRI Brain Tumor Volume Analysis” in MATLAB during **UG.**

AREAS OF INTEREST

- IoT
- Pattern classification.
- Audio/Image processing
- Machine learning and Deep learning.

TECHNICAL SKILL

- **Software Proficiencies:**
 - **Moderate-Level:** SQL.
 - **Proficient-Level:** MATLAB TOOLS
- **Programming Proficiencies:**
 - **Moderate-Level:** HTML, C, C++
 - **Proficient-Level:** JAVA, MATLAB, PYTHON

JOURNALS PUBLISHED

1. D.N.V.S.L.S Indira, R.Abinaya, Suresh Babu and Ramesh.Vatambeti (2021), Secured Personal Health Records using Pattern Based Verification and 2-Way Polynomial Protocol in Cloud Infrastructure, *Int. J. of Ad Hoc and Ubiquitous Computing* [accepted] [SCI Indexed]
2. Abinaya, R., Lakshmana Phaneendra Maguluri, S. Narayana, and Maganti Syamala. (2020), A Novel Biometric Approach For Facial Image Recognition using Deep Learning Techniques., *International Journal of Advanced Research in Engineering and Technology*, 11, no. 9. [SCOPUS Indexed]
3. Abinaya, R. (2021). Acoustic based Scene Event Identification Using Deep Learning CNN. *Turkish Journal of Computer and Mathematics Education (TURCOMAT)*, 12(5), 1398-1405. [SCOPUS Indexed]
4. Abinaya, R., & Sowmiya, R. (2021). Soft biometric based keystroke classification using PSO optimized neural network. *Materials Today: Proceedings*. [SCOPUS Indexed]
5. Dr. Abinaya. R; Aditya. Y; Dr. Bala Brahmeswara Kadaru. (2020), Automated classification of Oral Squamous cell carcinoma stages detection using Deep Learning Techniques, *European Journal of Molecular & Clinical Medicine*, 7, 4, 1111-1119. [SCOPUS Indexed]
6. Abinaya, R. and Sigappi, AN (2018), A keystroke dynamics based biometric for person authentication, *International Journal of Pure and Applied Mathematics*, Vol. 118(5), pp. 769-783. [SCOPUS Indexed and UGC Journal No. 23425]
7. Abinaya, R. and Sigappi, AN (2018) Biometric Identification of genuine user/imposter by keystrokes dynamic database, *International Journal of ChemTech Research*, Vol. 11(8), pp.147-160. [SCOPUS Indexed]
8. Abinaya, R. and Sigappi, AN (2018), Deep Learning Based Soft Biometric Identification of Age and Gender Using Grey Keystroke Dynamics, *Journal of Advanced Research in Dynamical & Control System*, Vol. 10(08), pp. 1429-1443. [SCOPUS Indexed and UGC Journal No. 26301]
9. Abinaya, R. and Sigappi, AN (2017), Identification of genuine user/imposter by keystrokes dynamic dataset using machine learning techniques, *International Journal of advanced research trends in engineering and technology (IJARTET)*, Vol. 5, pp. 903-913. [UGC Journal No. 62695]

10. Abinaya, R. and Sigappi, AN (2018), Biometric authentication of age and gender prediction by using GREYC keystroke dynamics Dataset, *International Journal of scientific Research in Science, Engineering and Technology (IJSRSET)*, Vol. 5, pp. 289-296 [UGC Journal No. 47147]
11. Abinaya, R. and Sigappi, AN (2018), Machine learning based biometric for person authentication by using BeiHang keystroke dynamic dataset, *International Journal of Scientific Research in computer science application and management studies*, Vol. 7(3), pp. 1-13 [UGC Journal No. 63611].
12. Abinaya, R. and Sigappi, AN (2018), LSTM Based Fusion Biometric for Person Identification using Audio and Keystroke Dynamics Information, has been accepted in *International Journal of Scientific Research in computer science application and management studies*. [UGC Journal No. 63611]

PUBLICATIONS IN NATIONAL AND INTERNATIONAL CONFERENCES

1. Abinaya, R. and Sigappi, AN (2016) Survey of Biometric Systems: Evolution and Challenges, *National Conference on Multimedia Signal Processing and Applications (NCMSPA)*, pp.139-144, February 12-13, 2016, Chidambaram
2. Abinaya, R. and Sigappi, AN (2018), Identification of genuine user/imposter by keystrokes dynamic dataset using machine learning techniques, *The Modern Mathematical Methods and High-Performance Computing in Manufacturing and Industrial Engineering System*, pp.22, January 24-25, 2018, Pollachi.
3. Abinaya, R. and Sigappi, AN (2018), Biometric Authentication of Age and Gender Prediction by Using GREYC- Keystroke Dynamics Dataset, *Proceedings of the National Conference Emerging Trends in RF & Engineering Sciences (ETRES'18)*, pp.22, April- 26-27, 2018, Chidambaram
4. Abinaya, R , Secured Personal Health Records using Pattern Based Verification and 2-Way Polynomial Protocol in Cloud Infrastructure” *Int. J.of Ad Hoc and Ubiquitous Computing*, 1743-8233, June 2021,pp, 86-93

WORKSHOPS/CONFERENCES ATTENDED

- Attended the Two Day National Conference on “*Emerging Trends in RF & Engineering Sciences*” held at Annamalai University on 26th and 27th April, 2018.
- Attended the International conference on “*International Journal of Emerging Technology in Computer Science & Electronics*” (IJETCSE) Ref.No-ICTTE-095 held at Annamalai University on 04-April 2014
- Attended the CSIR sponsored two-day National Conference in “*Modern Mathematical Methods and High Performance Computing in Manufacturing and Industrial Engineering Systems*” held at P.A College of Engineering and Technology, Coimbatore on 24th and 25th January 2018.
- Attended the UGC TNSCST NAAC supported Workshop on “*Application Software in Scientific Research*” held from 19-02-2016 to 20-02-2016 at Annamalai University.
- Attended the “*Research Methodology*” Workshop conducted by the Department of Economics held from 24-03-2016 to 31-03-2016 at Annamalai University.

- Attended the AICTE-QIP supported two weeks' short-term course on "Deep Learning with applications in language, vision and control" held from 04-12-2017 to 17-12-2017 at Thiagarajar college of Engineering, Madurai.
- Attended National Workshop on "Emerging Challenges in the Operation and Control of Solar Power Planrson" on 24th and 25th March, 2018 at Annamalai University.

PERSONAL DETAILS

Father's Name : Mr. P. Ramaiyan. (Rtd. State bank manager)
Mother's Name : Mrs. R. Malarvizhi (Teacher)

Marital status : Single
Nationality : Indian
Date of Birth : 16th February 1992
Languages known : English, Tamil
Contact Address : 60/41n, Mainroad, Thenpathi (TK),
Sirkali (PO), Nagaipattinam, (D)
Tamil Nadu – India. PIN - 609111.

Place: Vijayawada

Date: 04-12-2021

Thanks & Regards

[R. ABINAYA]