ADITHYA V.

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ACADEMIC BACKGROUND

PhD	Central University of Kerala, Periya, Kasaragod	2016-present	Submitted (September 2021)
M Tech Computer Science with specialization in Image Processing	College of Engineering, Chengannur, Cochin University of Science and Technology	2011-2013	9.60 (CGPA)
B Tech(Computer Science)	Govt. Model Engineering College, Thrikkakara, Cochin University of Science and Technology	2006–2010	74.2%
Class XII	St. Joseph's Convent Girl's Higher Secondary School, Thrissur	2005	86.67%
Class X	Govt. Girl's Higher Secondary School, Balussery, Kozhikode	2003	93.16%
UGC-NET (Computer Science and Applications)		2018, 2019	
KSCSTE Research Fellowship		2015	
GATE (Computer Science and Information Technology)		2010	

TECHNICAL SKILLS

Programming Languages	C, C++, Java
Subjects of Interest	Digital Image Processing, Pattern Recognition, Algorithms and Complexity, Database Management System (DBMS), Data Mining, Data Structures.
Development Tools	MATLAB.
Machine Learning Tools	Deep Learning, Artificial Neural Networks, Support Vector Machine, Hidden Markov Model

PUBLICATIONS AND PATENTS

Design Patent

1. Position adjusting device for the camera capturing the sign language, **Adithya V.** and Rajesh R., Design No. 330821-001, Govt. of India (2020)

Journal Publications

1. Applying Deep Neural Networks for the Automatic Recognition of Sign Language Words: A Communication aid to Deaf Agriculturists, **Adithya V.** and Rajesh R., Expert Systems with Applications, 185, 115601 (2021) (**IF: 6.954**).

2. Hand gestures for emergency situations: A video dataset based on words from Indian sign language, **Adithya V.** and Rajesh R. Data in Brief, 31, 106016 (2020).

3. A Deep Convolutional Neural Network Approach for Static Hand Gesture Recognition, **Adithya V.** and Rajesh R., Procedia Computer Science, 171, 2353-2361 (2020).

4. Convolutional Neural Network based Sign Language Recognition to Assist Online Assessment, **Adithya V.** and Rajesh R.,2nd International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS)

, IEEE Xplore, 156-160 (2021).

5. Effectual Hand Posture Recognition using Block Level DCT-Diagonal-HOG Features, **Adithya V.** and Rajesh R., International Conference on Electrical, Computer and Communication Technologies (ICECCT), IEEE Xplore, 1-6 (2019).

6. An Efficient Method for Hand Posture Recognition Using Spatial Histogram Coding of NCT Coefficients, **Adithya V.** and Rajesh R., Recent Advances in Intelligent Computational Systems (RAICS), IEEE Xplore, 16-20 (2018)

7. Automatic Facial Feature Recognition and Facial Expression Analysis in Images, Sumalakshmi C.H. and **Adithya V.**, International Journal of Science, Engineering and Technology, 3, 717 (2014)

8. Contour Potential Energy Based Method for Indian Sign Language Recognition, **Adithya V.**, Vinod P. R. and Usha Gopalakrishnan, International Journal of Scientific and Engineering Research, 4, 2030 (2013)

9. Artificial neural network based method for Indian sign language recognition, **Adithya V.,** Vinod P. R. and Usha Gopalakrishnan, IEEE Conference on Information & Communication Technologies, 1080-1085 (2013)

Book Chapters

1. A Vision based Approach to Driver's Hand Signal Recognition, **Adithya V.** and Rajesh R., Intelligent Computing and Signal Processing, Narosa Publishers (2019), ISBN: 978-81-8487-691-8

Conference Presentations

1. AICTE sponsored 2nd International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS'21) technically sponsored by IEEE Kerala Section and hosted by Department of Electronics and Communication Engineering, Adi Shankara Institute of Engineering and Technology, Kalady, Ernakulam, India during 2 - 4 September, 2021.

2. Third International Conference on Computing and Network Communications (CoCoNet'19) organized by Indian Institute of Information Technology and Management-Kerala (IIITM-K), Trivandrum in association with ACM Trivandrum Professional Chapter at Trivandrum, Kerala 2019.

3. International Conference on Intelligent Computing and Signal Processing held during 08-09 March 2019 at Central University of Kerala, Co-sponsored by Kerala State Council for Science Technology and Environment – KSCSTE and C-DAC: Centre for Development of Advanced Computing.

4. Third IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2019) held during 20-22 February 2019at SVS Engineering College, Coimbatore.

5. 31st Kerala Science Congress (KSC) held during 02-03 February 2019 at Fatima Mata National College, Kollam.

6. IEEE International Conference on Recent Advances in Intelligent Computational Systems (RAICS, 2018) held during 06-08 December 2018 at Mascot hotel, Trivandrum.

7. IEEE Conference on Information and Communication Technologies, Noorul Islam University, Thuckalay, Tamilnadu, India, held during11-12 April, 2013.

PROFESSIONAL EXPERIENCE

Software Engineer at MindTree Ltd. Bangalore   **Duration:** July 12, 2010 to October 5, 2011
- **Role**: Programmer Analyst.
- **Profile**: Software Performance Testing

TEACHING EXPERIENCE

Working as Guest Faculty in the Department of Computer Science, Central University of Kerala from 13th September onwards.

Worked as Assistant Professor at KMCT College of Engineering, Kozhikode from 11thJuly 2013 to 15thOctober 2014.

Worked as Assistant Professor at North Malabar Institute of Technology, Kanhangad from 5th January 2015 to 02nd May 2016.

AWARDS AND ACHIEVEMENTS

- Got selected as the **first entry in the VC's list** of Central University of Kerala.
- Acted as **reviewer for five** international journals.
- Publications have obtained 124 citations from contemporary researchers and H-index of 4.
- Cleared UGC-NET for the eligibility for Assistant Professor held in **July 2018 as well as June 2019** in the subject of Computer Science and Applications.
- Won Second prize in the **"Research Scholar Research Work Oral Presentation"** on the occasion of National Science Day Celebration- 2019 at Central University of Kerala, Periya, Kasaragod held in February 2019.
- Awarded research fellowship from **Kerala State Council for Science Technology and Environment (KSCSTE)** in the year 2015.
- **3rd rank in M. Tech** Degree Examination in Computer Science with specialization in Image Processing.
- Cleared **GATE** (Graduate Aptitude Test in Engineering) in February 2010 in the subject of Computer Science and Information Technology.
- Secured top 5% in 4th National Aptitude Test by NIIT.
- Participated in various technical festivals.
- Prizes in various quiz competitions.
- Secured National Talent Search Scholarship.
- Prizes in various arts and cultural festivals.
- First Prize in Labour India Mega Quiz at school level.
- Got prizes in Science- Mathematics- Work experience fair.
- Sub district topper in Standard 10th.
- USS in upper primary school.

PERSONAL DETAILS

Date of Birth	:	23-05-1988
Sex	:	Female
Nationality	:	Indian
Marital Status	:	Married
Languages Known	:	English, Malayalam