



Dr. Jestin Joy

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Career Summary

St. George's College Aruvithura / Assistant Professor

August 2021 - PRESENT, Department of Computer Applications

Federal Institute of Science And Technology (FISAT) / Assistant Professor

August 2011 - August 2021, Department of Computer Science And Engineering

Education

Cochin University of Science And Technology (CUSAT) / PhD

Teachnology

June 2020, Department of Computer Applications

Thesis: Design and Development of Assistive software tools for improving the effectiveness of Sign Language based learning

Rajagiri School of Engineering and Technology / M.Tech

Computer Science And Engineering with Specialization in Information Systems

March 2012, Department of Computer Science And Engineering

College of Engineering Chengannur / B.Tech

Computer Science And Engineering

April 2009, Department of Computer Science And Engineering

Exams Qualified

Graduate Aptitude Test in Engineering (GATE)

2009, 2011

UGC National Eligibility Test (NET)

2020

Publications (Journal)

1. Joy, Jestin, Kannan Balakrishnan, and Sreeraj Madhavankutty. "SignText: a web-based tool for providing accessible text book contents for Deaf learners." *Universal Access in the Information Society* 21.3 (2022): 717-723.

2. Joy, Jestin, and Kannan Balakrishnan. "A prototype Malayalam to Indian Sign Language (ISL) Automatic Translator." *International Journal of Next-Generation Computing* 13.2 (2022).
3. Sreeraj, M., et al. "Comparative analysis of Machine Learning approaches for early stage Cervical Spondylosis detection." *Journal of King Saud University-Computer and Information Sciences* 34.6 (2022): 3301-3309.
4. Sreeraj, M., and Jestin Joy. "A machine learning based framework for assisting pathologists in grading and counting of breast cancer cells." *ICT Express* 7.4 (2021): 440-444.
5. Joy, Jestin, Kannan Balakrishnan, and Sreeraj Madhavankutty. "A novel web based dictionary framework for Indian sign language." *SN Computer Science* 2.3 (2021): 174.
6. Joy, Jestin, Kannan Balakrishnan, and M. Sreeraj. "SiLearn: An intelligent sign vocabulary learning tool." *Journal of Enabling Technologies* 13.3 (2019): 173-187.
7. Joy, Jestin, Kannan Balakrishnan, and M. Sreeraj. "SignQuiz: a quiz based tool for learning fingerspelled signs in indian sign language using ASLR." *IEEE Access* 7 (2019): 28363-28371.
8. Joy, Jestin, Kannan Balakrishnan, and Sreeraj Madhavankutty. "Developing a bilingual mobile dictionary for Indian Sign Language and gathering users' experience with SignDict." *Assistive Technology* (2018).

Publications (Conference)

1. Joy, Jestin, and Sreeraj. "ISLHelper: A web based helper plugin for Indian Sign Language." *Proceedings of the Asian CHI Symposium 2021*. 2021.
2. Joseph, Judith George, et al. "Automatic Information Extraction and Inferencing System from Online News Sources for Substance Abuse Cases." *ISIC*. 2021.
3. Shaji, Soorya, et al. "On computer-aided diagnosis of breast cancers using nuclear atypia scoring." *Advances in Communication Systems and Networks: Select Proceedings of ComNet 2019*. Singapore: Springer Singapore, 2020. 665-676.
4. Sreeraj, M., et al. "VIZIYON: Assistive handheld device for visually challenged." *Procedia Computer Science* 171 (2020): 2486-2492.
5. Sreeraj, Ms, et al. "CLadron*: AI assisted device for identifying artificially ripened climacteric fruits." *Procedia Computer Science* 171 (2020): 635-643.
6. Joy, James, Anurag Raghu, and Jestin Joy. "Architecture for secure tablet integration in automotive network." *Proceedings of the FISITA 2012 World Automotive Congress: Volume 6: Vehicle Electronics*. Springer Berlin Heidelberg, 2013.

Patent

1. Joy, Jestin, Sreeraj M, Kannan Balakrishnan, and Alphonsa Kuriakose. "System for Assisting a Deaf Person in Responding to a Situation in a Surrounding Environment within a Premise and Method Thereof." Indian Patent, 2021.

Workshops

(As resource person)

1. "Programming AI" as part of ATAL FDP (Online) on Frontiers of Artificial Intelligence - Theories, Frameworks and Cutting Edge Applications on 1/12/2025.
2. "Introduction to FOSS" organized by the Department of Computer Applications, Sree Sabareesa College, Murukkumvayal on 28/11/2023.
3. "Workshop on LaTeX" organized by the Department of Computer Science And Engineering, Federal Institute of Science And Technology (FISAT) on 5/12/2022.
4. "Workshop on Moodle LMS" organized by Dental Education Unit and IQAC, Mar Baselios Dental College, Kothamangalam on 20/5/2022.
5. "Data Science using Python" organised by College of Engineering Vadakara on 29/1/2021
6. "LaTeX for Beginners" organised by CSI Cochin Chapter on 21/11/2020.
7. "CUDA Programming" organised by Sahrdaya College of Engineering And Technology as part of FDP on "Parallel Computing Technologies" on 28/4/2016.
8. "Python Workshop" organised by Department of Computer Applications, CUSAT as part of Workshop on "Graph Algorithms and Computer Applications" on 8/12/2014.
9. "LaTeX for Academia" organized by College of Engineering Kidangoor on 4/9/2014.

Memberships

Professional Member - Association for Computing Machinery
February 2021 - Present

Awards/Grants

Best Poster Award - ACM Compute 2018
October 2018

Ambassador of ACM - For membership activities
February 2016

Positions Held/Academic Engagements

Head of the Department, Department of Computer Applications, St. George's College Aruvithura
August 7, 2021 - PRESENT

Editorial Advisory Board Member - Journal of Enabling Technologies
May 2022 - PRESENT

Managing Editor - Georgian Education Mine (GEM) Journal
August 2023 - PRESENT