Greeshma M S

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📍 Idukki, Kerala,India

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I am a computer vision and deep learning researcher. Passionate about technology, innovation and research, and teaching. I am eager to leverage my technical skills and CV/ML domain knowledge to create practical products for the real world. I am passionate about providing a holistic learning experience that prepares students for the evolving world of AI.

🎓 Education

PhD in Computer science, *School of Computer Sciences, Mahatma Gandhi University, Kottayam* — 01/2020 – present, Kottayam, Kerala, India
Project: Novel and Efficient Real-time Algorithms for Super Resolution in Hypermedia

M.Phil in Computer Science, *School of Computer Sciences, Mahatma Gandhi University* — 2016 – 2017, Kottayam, Kerala, India
Project: Enhanced Image super-resolution Algorithms and Novel Quality Assessment Metric-SREM

MSc. Computer Science, *School of Computer Sciences, Mahatma Gandhi University* — 2013 – 2015, Kottayam, Kerala, India
Project: Detail Preserving Single Image Super-resolution with Qulaity Improvemnet

Bachelor of Computer Applications (BCA), *N. S.S College Rajakumary* — 2010 – 2013, Idukki, Kerala, India

🧩 Research Experience

PhD Intern, *IIIT Delhi* — 11/2021, Delhi, India

Research Fellow, — 07/2017 – 09/2022, Kerala, India
Department of Science and Technology-PURSE Scheme India, Mahatma Gandhi University

💼 Professional Experience

Assistant Professor (On Contract), — 10/2022 – present, Kottayam
School of Artificial Intelligence and Robotics, Mahatma Gandhi University, Kottayam
Area of teaching: Mathematical foundation for AI, Computer Vision

🧠 Skills

- Python
- Matlab
- Deep Learning Frameworks
- React and MonocoDB

🧩 Research Interest

Artificial Intelligence

Computer Vision

Deep Learning

High Performance Computing

Image/Signal Processing

Data Science

📰 Publications

A Super Feature Transform for Small-Size Image Forgery Detection,   2022
Communications in Computer and Information Science, Springer
https://doi.org/10.1007/978-3-031-07005-1_21 (Matlab)

Super-resolution Quality Criterion (SRQC): a super-resolution image quality   2020
assessment metric, *Multimed Tools Appl, vol.(79), pp. 35125–35146 (2020), Springer*
https://doi.org/10.1007/s11042-020-09352-0 (Matlab)

An Integrated Approach for Building Footprint Extraction from Satellite Image,   2021
Computer Communication, Networking and IoT. Lecture Notes in Networks and Systems, vol 197,
Springer
https://doi.org/10.1007/978-981-16-0980-0_29 (Python)

Super-resolution using Deep Networks for Chest X-Ray Images,   2022
2021 Sixth International Conference on Image Information Processing (ICIIP), pp. 198-201, IEEE
doi: 10.1109/ICIIP53038.2021.9702582. (Python)

An Effective Keypoints Extraction Scheme for Image Tampering Detection,   2021
2021 International Conference on Artificial Intelligence and Machine Vision (AIMV),pp. 1-5, IEEE
doi: 10.1109/AIMV53313.2021.9671014 (Matlab)

Novel Quality Metric for Image Super Resolution Algorithms - Super Resolution   2019
Entropy Metric, *Communications in Computer and Information Science, vol 1035, Springer*
https://doi.org/10.1007/978-981-13-9181-1_14 (Matlab)

An Efficient Image Segmentation Approch Using Superpixels With Colorization,   2020
Procedia Computer Science, Vol.14. pp. 837-846, Elsevier
https://doi.org/10.1016/j.procs.2020.04.091 (Python)

Single image super resolution using fuzzy deep convolutional networks, *IEEE*   2017
International Conference on Technological Advancements in Power and Energy (TAP Energy),pp.
1-6, IEEE
doi: 10.1109/TAPENERGY.2017.8397224. (python)

Single image super resolution: An efficient approach using auto-learning and filter   2017
pooling,
IEEE International Conference on Intelligent Sustainable Systems (ICISS), pp.20-27, IEEE
doi: 10.1109/ISS1.2017.8389412 (Matlab)

Deep primitive convolutional neural network for image super resolution,   2023
Multimedia Tools and Applications, Springer
https://doi.org/10.1007/s11042-023-15661-x (Python)

🎖 Awards

BSET PAPER AWARD for the paper An Integrated Approach for Building Footprint   2020
Extraction from Satellite Imagery, *Springer*

ACM India Anveshan Setu Fellowship 2021, *ACM*   2021
PhD Visiting Program, Mentored by Prof. Rajiv Ratn Shah, IIIT Delhi

BSET PAPER AWARD for the paper Novel Quality Metric for Image Super Resolution Algorithms - Super Resolution Entropy Metric (SREM), *Springer*   2018

Student Travel Grant-CODS-COMAD 2023, IIT Bombay, *ACM India*   2023

⊶ References

Dr. Bindu V R, *Professor*, Mahatma Gandhi University, Kottayam
binduvr@mgu.ac.in, 944659644

Dr. Rajiv Ratn Shah, *Professor*, IIIT Delhi
rajivratn@iiitd.ac.in, 011-26907495

Dr. Madhu S Nair,, *Professor*, Cochin University of Science and Technology Kochi,
msn@cusat.ac.in, 9447364158