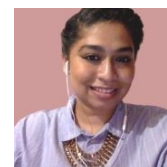


# Silica Kole – Résumé (Applicant)

✉ silicaster[at]gmail[dot]com

🌐 <https://silicakole.info>

🌐 <https://www.linkedin.com/in/thesilipoint/>



## Academic Working Experience

- 2012 – Present    **Assistant Professor**, Computer Science and Engineering Department, Bharati Vidyapeeth's College of Engineering, New Delhi, India (Affiliated to Guru Govind Singh Indraprastha University, New Delhi, under University Grants Commission, Govt. of India ).
- 2021 – Present    **Ph.D. Research Scholar**, Computer Science and Engineering Department, National Institute of Technology, Goa, India ).

## Education

- 2021 – Present    **Ph.D., National Institute of Technology (NIT), Goa, India** in Computer Science and Engineering (CGPA 8.5).  
Research Area: *Machine Learning*
- 2009 – 2011    **Master of Technology (M.Tech.), Rajasthan Technical University, Kota, Rajasthan, India, under University Grants Commission, Govt. of India** in Computer Science and Engineering (CGPA 7.4).  
Thesis Title: *Global Catastrophic Alert System - Based on Wireless Sensor Networks*.
- 2005 – 2009    **Bachelor of Engineering (B.E.), Maharshi Dayanand University, Rohtak, Haryana, India, under University Grants Commission, Govt. of India** in Computer Science and Engineering (CGPA 7.5).  
Thesis Title: *Multimedia Image Mining - Based on Image Segmentation and Processing*.

## Current Research Interests (in Order of Preference)

- Machine Learning    **Learning Machines and Bio Inspired Algorithms.**
- Artificial Intelligence    **Argumentation Theory, Knowledge Representation and Logic Programming.**
- Data Science    **Data Mining and Data Visualization.**

## Research Publications

### Journal Papers

- Silica Kole**, Hassan, S., Arya, M., & Bhardwaj, U. (2018). Extraction and Classification of User Interface Components from an Image. *International Journal of Pure and Applied Mathematics*, 118(24), Special Issue. <https://acadpubl.eu/hub/2018-118-24/4/694.pdf>
- Silica Kole**, Goel, V., Singhal, S., & Jain, T. (2017). Specific Color Detection in images using RGB Modelling in MATLAB. *International Journal of Computer Applications*, 161(8), 38–42.  
<https://www.ijcaonline.org/archives/volume161/number8/goel-2017-ijca-913254.pdf>

- 3 **Silica Kole**, Kumar, R., Guru, J., & Sharma, T. (2017). RGB based image grouping using the method of color thresholding in matlab. *International Journal of Engineering and Future Technology*, 14(3), 78–82.  
<https://www.ceser.in/ceserp/index.php/IJEFT/article/view/4874>
- 4 **Silica Kole**, Agarwal, C., Gupta, T., & Singh, S. (2015). SURF and RANSAC: A Conglomerative approach to Object Detection. *International Journal of Computer Applications*, 109(4), 07–09.  
<https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.695.3525&rep=rep1&type=pdf>
- 5 **Silica Kole**, Kumar, A., Bhatia, P., & Goel, A. (2015). Implementation and Comparison of Decision Tree based Algorithms. *International Journal of Innovations and Advancement in Computer Science*, 4(Special Issue), 190–196. <https://www.academicscience.co.in/admin/resources/project/paper/f201505161431763874.pdf>
- 6 **Silica Kole**, Kumar, A., Bhatia, P., & Goel, A. (2014). Implementing Dynamic Authority based Search using Binrank Algorithm. *International Journal of Innovative Research in Computer and Communication Engineering*, 2(11), 6967–6970.  
[httpS://www.ijrcce.com/upload/2014/november/37F\\_Implementing.pdf](httpS://www.ijrcce.com/upload/2014/november/37F_Implementing.pdf)
- 7 **Silica Kole**, Gupta, D. K., & Goel, P. (2013). Simulation of DDoS Attack and real time Prevention Algorithm. *International Journal of Scientific and Engineering Research*, 4(7), 1536–1538.  
<https://www.ijser.org/onlineResearchPaperViewer.aspx?Simulation-of-DDoS-Attack-Real-Time-Prevention-Algorithm.pdf>
- 8 **Silica Kole**. (2012). Global Catastrophic Alert System. *International Journal of Scientific and Engineering Research*, 3(6), 01–03.  
<https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.302.6361&rep=rep1&type=pdf>

## Skills

|           |  |
|-----------|--|
| Languages | Can fluently read, write and speak in English, Hindi (National Language of India) and Bengali (Mother Tongue). |
| Coding    | C, Python, React JS, LaTeX.  |
| Databases | MySQL.   |
| Web Dev   | HTML, CSS, JavaScript, Apache Web Server.  |
| Misc.     | Academic Research, Teaching, Training, Consultation, LaTeX typesetting and Publishing.                         |

## Miscellaneous Experience

### Awards and Achievements

- 2020 **United Nations (UN) Volunteer:** Selected as an Environmental Researcher on Volunteering basis at Global Waste Cleaning Network (GWCN).
- 2018 **Best Project Award:** One Engineering Project entitled 'Extraction and Classification of User Interface Components from an Image' received Best Project Award from Guru Govind Singh Indraprastha University, New Delhi, India.
- Smart India Hackathon (Annual National Level Coding Competition organised by Govt. of India):** Our Team 'Sakshat' Mentored by me was selected as one of the Finalist Teams out of 2000 entries, in the Smart India Hackathon 2018, Software Edition at a Center at Indore, India







### Certification

- 2020 **The International English Language Testing System (IELTS):** Band score of 7.5 overall in IELTS Academic, test conducted by the British Council on 22nd October 2020.

## Miscellaneous Experience (continued)

- 2019  **Short Term Course of One Week on Digital Signal Processing using MATLAB (DSPM 2019):** Certificate awarded by Netaji Subhas Institute of Technology (A Prominent University under Govt. of Delhi), New Delhi, India.
- 2018  **Quality Improvement Program of One Week on Machine Learning and its Applications:** Certificate awarded by Indian Institute of Technology (IIT), Roorkee, India.
- 2017  **Short Term Course of One Week on Information Security and Digital Forensics:** Certificate awarded by Netaji Subhas Institute of Technology (A Prominent University under Govt. of Delhi), New Delhi, India.
-  **International Workshop on Big Data Analytics (WBDA 2017):** Certificate awarded by Jawaharlal Nehru University (JNU), New Delhi, India.
- 2016  **Quality Improvement Program of Two Weeks on Parallel Programming for HPC:** Certificate awarded by Indian Institute of Technology (IIT), Delhi, India.
-  **Workshop on Image Processing using MATLAB:** Certificate awarded by University School of Information and Communication Technology (USICT), New Delhi, India.
-  **Short Term Course of One Week on Vulnerability Assessment of Networks and Web Applications:** Certificate awarded by National Institute of Technical Teachers Training and Research (Govt. of India), Chandigarh, India.
- 2013  **Faculty Development Program of One Week on Advanced Communication Techniques:** Certificate awarded by National Institute of Technology (Govt. of India), Delhi, India.
- 2012  **Quality Improvement Program of Two Weeks on Creativity and Innovation.** Certificate Awarded by Indian Institute of Technology, Delhi, India.

## Personal Information

|                  |   |
|------------------|---|
| Nationality      |  Indian.   |
| Current Location |  NIT Goa, India.   |
| Gender           |  Female.   |
| Age              |  34 Years.   |
| Marital Status   |  Unmarried.  |
| Hobbies          |  Travel, Reading, Writing, YouTube, Podcasting and Drawing |

## References

Available on Request