

PROFILE

Name	Dr. Karthik B U
Position & Affiliation	Assistant Professor, Department of CSE
Areas of Interest	Machine Learning, Artificial Intelligence
Email	Karthikbu.cse@cambridge.edu.in
LinkedIn ID	
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Professional Webpage (if any)	

Educational Qualifications:

Ph.D	Presidency University	India	2023
MTech	M S Ramaiah Institute of Technology	India	2018
BE	Govt. SKSJ Technological Institute	India	2015

Areas of Research:

Artificial Intelligence, Machine learning, Image Processing.

Brief Profile: (write about yourself)

I am Dr. Karthik B U, currently serving as an Assistant Professor in the Department of Computer Science and Engineering. I hold a Ph.D. in Image Processing from Presidency University, with expertise in machine learning, biomedical image analysis, and digital electronics. My research work is published in several reputed Q2–Q4 indexed journals. With a passion for innovation and student-focused learning, I aim to bridge the gap between theory and real-world application. My teaching philosophy emphasizes academic rigor, hands-on learning, and fostering interdisciplinary research.

Awards/Achievements/Others:

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Courses Taught: Microcontroller, Digital Design and Computer Organization, Machine Learning, Data Visualization using Power Bi and Tableau

Publications/Patents:

Publications	• Karthik B U, “Face recognition using Machine Learning algorithm”, International journal of scientific research and review, ISSN NO: 2279-543X , pp 250-256, Volume 7, Issue 9, 2018, doi:16.10089.IJSRR.2018.V7106.5245.2437 • Karthik B U, Dr. Muthupandi G. (2022). “A Brief Survey on Various Techniques in Image Enhancement. Design Engineering”, (1), 4103 - 4111. Retrieved from http://www.thedesignengineering.com/index.php/DE/article/view/9604 (Q4 indexed) • B U Karthik, Dr G Muthupandi (2022). “SVM and CNN Based Skin Tumour Classification Using WLS Smoothing Filter”, Optik,170337, ISSN 0030- 4026, 2022. https://doi.org/10.1016/j.ijleo.2022.170337. (Q2 indexed). • Mr. B U Karthik, Dr G Muthupandi (2023). “Bilateral filter based dermic tumor classification using SVM and CNN”, European chemical bulletin (Q3 indexed). • Mr. Lakshmisha S K, Impa B H, Karthik B U, Dr. Laxmi singh (2023). “Improved Ant Colony Optimization Algorithm Based Feature Selection For Remote Sensing Images In Land Cover Area”, European chemical bulletin (Q3 indexed). • Dr. Afroz pasha, Dr. Prasad P S, Dr. Mrutyunjaya M S, Dr. Karthik B U, Dr. Varalakshmi K R, MS. Rekha M S, “A Novel Approach for Brain tumour classification using Bilateral Filtering and Cascade RF-SVM”, Communications on Applied Nonlinear Analysis, Vol 32(10) , PP 296-312,ISSN 1072-133x, 2025.(Q4 Indexed) • Dr. Mrutyunjaya M S, Dr. Karthik B U, Dr. Sunil Kumar R M, Dr. Murthy D H R, “Predicting Cardiovascular Disease Using Ensemble Machine Learning Methods”, Open Access Journal of Science and Engineering, Vol 8(1), PP 1-9, ISSN 2456-3293, 2025. (UGC CARE Journal) • Dr. Mrutyunjaya M S, Dr. Karthik B U, Dr. Sunil Kumar R M, Dr. Murthy D H R, “A Novel approach for Improving the Multiauthority Cipertext-policy for Blockchain Based Digital Rights Management Scheme”, Open Access Journal of Science and Engineering, Vol 8(1), PP 10-18, ISSN 2456-3293, 2025. (UGC CARE Journal)
Patents	TITLE: SMART ROBOT FOR WAREHOUSE AUTOMATION AND LOGISTICS Design No: 444398-001, DOI: 01/04/2025
Book/Book Chapters	Mrutyunjaya M. S., Murthy D. H. R., Karthik B. U., & Priyanka T. V. (2025). Hands-on data visualization in R: From static plots to animated and interactive dashboards with ggplot2 and Shiny: Hands-on practices. Clever Fox Publications. ISBN: 978-93-6707-691-0

