

## RESUME

**Name** : **Malathi S Y**  
**Address for Communication** : Malathi S Y  
Associate Professor  
Department of Computer Science  
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**Date of Birth** : 24/07/1991  
**Qualification** : Ph.D. (CSE),M.Tech. (CSE), B.E(CSE)  
**Present Status** : Assistant Professor

Sl. No	Degree	University/Institution/Board	Year of Passing	Class	Specialization
1	Ph. D	KLE Institute of Technology, Hubballi	2024	-	Deep Learning
2	M.Tech	Kalpataru Institute of technology, Tiptur	2015	First class with distinction	Computer Science and Engineering
3	B. E	Alvas Institute of engineering and technology, moodibidri	2012	First class	Computer Science and Engineering

### Teaching Experience: 8+ years

Sl. No.	Name of the employer	From	To	Years/months	Designation
1.	Anjuman Institute of Technology & Management, Bhatkal	05-05-2012	31-05-2013	1 year	Assistant Professor
2.	Anjuman Institute of Technology & Management, Bhatkal	29-02-2015	31-05-2018	3 year 3 months	Assistant Professor
3.	Jain College of Engineering & Technology, Hubballi	09-10-2019	09-04-2022	2 year 5 months	Assistant Professor
4.	KLE Institute of Technology, Hubballi	11-04-2022	Till date	Till date	Associate Professor

## **GRANTS RECEIVED/SANCTIONED**

TITLE OF THE PROJECT	FUNDING AGENCY	GRANT TYPE	AMOUNT	YEAR
AI based Arecanut grading system	MSME	MSME Women Hackthon	15,00,000	2024

### **Scopus Indexed/Quartile Journals:**

[1].**Malathi S Y**, Geeta R B "Classification of Knee X-Ray Images by Severity of Osteoarthritis Using Skip Connection Based ResNet101 ", published in the International Journal of Intelligent Engineering & Systems with Vol. No 16, Issue No 5, Page No. 738 Impact factor 1.90 and year of publication 2023, published by The Intelligent Networks and Systems Society with DOI: [10.22266/ijies2023.1031.62](https://doi.org/10.22266/ijies2023.1031.62)(**Q2**).

[2]. **Malathi S Y**, Geeta R B "A Novel Method on CNN-LSTM to Characterize Knee Osteoarthritis from Radiography", published in Proceedings of the National Academy of Sciences, Biological Sciences(NASB), published by springer with DOI:[10.1007/s40011-023-01545-5](https://doi.org/10.1007/s40011-023-01545-5)(**Q2**).

[3]. **Malathi S Y**, Geeta R B "A predictive Modelling for characterization and grading of knee Osteoarthritis using Machine Learning Algorithms: A Study in Early Diagnosis and Prognosis", published in the Journal of Electrical Systems with Vol. No 20, Issue No 5s Page No. 1 and year of publication 2024 with DOI: [10.52783/jes.cims.1828](https://doi.org/10.52783/jes.cims.1828)(**Q3**).

[4]. Sharada K S, Geeta R.B, Manohara K K, **Malathi S Y**, "Insight Analysis of Deep Learning and a Conventional Standardized Evaluation System for Assessing Rice Crop's Susceptibility to Salt Stress during the Seedling Stage" S N Computer Science, ISSN: 2661-8907, Dec 2023 with DOI:[10.1007/s42979-023-02168-3](https://doi.org/10.1007/s42979-023-02168-3)(**Q1**).

[5]. Malathi S Y, Geeta R.B, Shashikumar Totad, "A survey on Multispectral Imaging: Applications for Medical Diagnostics" International Journal of Pure and Applied Mathematics, ISSN:1314-3395, Vol. 120 No.6, June 2018, pp 721- 726, <https://acadpubl.eu/hub/2018-120-6/1/49>(**Q4**).

[6]. A research article titled "Diagnosing and Grading Knee Osteoarthritis from X-ray Images Using Deep Neural Angular Extreme Learning Machine", in Proceedings of the Indian National Science Academy (PINSAs) with ISSN: 2454-9983, <https://doi.org/10.1007/s43538-024-00366-y>(**Q3**).

### **Scopus Indexed International Conferences:**

[1]. Presented a research article titled “Predictive Models for the Early Diagnosis and Prognosis of Knee Osteoarthritis Using Deep Learning Techniques” in the Conference ISComm-2023 (INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS IN COMPUTING AND COMMUNICATION) on Dec 08 and Dec 09,2023 at Mangalore Institute of Technology & Engineering (MITE).

[2]. Presented a research article titled “Predicting Salinity Resistance of Rice at the Seedling Stage: An Evaluation of Transfer Learning Methods” in the Conference ISComm-2023(INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS IN COMPUTING AND COMMUNICATION) on Dec 08 and Dec 09,2023 at Mangalore Institute of Technology & Engineering (MITE).

[3]. Presented a research article titled “Data harbor WFH: Decoding remote work challenges with AWS analytics.” In conference of CODE-AI (INTERNATIONAL CONFERENCE ON DATASCIENCE & EXPLORATION IN ARTIFICIAL INTELLIGENCE) 2024 at Manipal Institute of Technology, Bangalore.

[4]. Presented a research article titled “NAARI- A Portable Sanitary Napkin Vending Machine” at the second international conference on Self Sustainable Systems on Artificial Intelligence Systems (ICSSAS 2024) held from 23-25, Oct 2024 at M.P. Nachimuthu M. Jagnathan Engineering College, Chennimalai, Erode, India.

[5]. Presented a research article titled “Deep Learning Approaches for Cataract Detection Using Fundus and Real-Time Naked Eye Imaging.” In the Conference ICRASET-2024(INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN SCIENCE AND ENGINEERING TECHNOLOGY) on 21<sup>st</sup> and 22<sup>nd</sup> Nov,2024 at BGSIT, Mandya.

**Industrial Exposure**

<b>Course Name</b>	<b>Duration</b>	<b>Training Agency</b>
Hyperspectral Remote Sensing	22-07-2024 to 26-07-2024	ISRO NRSC Hyderabad
Wipro Certified Faculty Program	03-07-2022 to 17-10-2022	Wipro TalentNext
JAVA Full Stack Development	23-01-2023 to 10-02-2023	Wipro TalentNext
Advanced Technology Program on Cloud	11-09-2023 to 15-09-2023	Wipro TalentNext

Computing		
Advanced Technology Certified Faculty (ATCF) on Cloud Computing	26-10-2023 to 12-02-2024	Wipro TalentNext

**Student Project Proposal Approved for Sponsorship:**

Project Name	Funding Agency	Year
Estimation of Yellow Rust Severity in Wheat using Machine Learning Models	KSCT	2024

**Membership Of Professional Bodies:**

SI	Professional Organisation	Membership Number	Category
1	Association for Computing Machinery	6473305	Member
2	The Institution of Engineers		Member

**Topics of Teaching & Research:**

- Principles of Programming Languages.
- Database Management System
- Design and Analysis of Algorithms.
- Advanced Data Structures.
- Object oriented Analysis and Design.
- Artificial Intelligence and Machine Learning
- Computer Graphics & Visualization
- Data Mining & Data Warehousing
- Big Data Analytics
- Introduction Python Programming
- Deep Learning
- NO SQL
- Data Science

**Declaration**

I hereby declare that all the statements made in the application are true, complete and correct to best of my knowledge and belief.

Place: Hubballi

Date:

(Dr. Malathi S Y)