RAJASHREE JOSHI

Profile

Assistant Professor with academic and industry experience in Artificial Intelligence, Machine Learning, and Software Engineering. Currently teaching undergraduate and postgraduate courses (BCA and MCA), and actively involved in departmental responsibilities including **Result Analysis**, **Exam Cell coordination**, and serving as the **Sports Coordinator** for the department.
Research interests lie in Computer Vision, AI-driven perception, and autonomous navigation systems. Published work includes a journal paper and a book chapter in AI/ML, with additional research under review in Scopus-indexed venues. Actively preparing for doctoral research with a focus on advancing intelligent systems for real-world applications.

Work experience

July 2024 – April 2026 **Assistant Professor**, *TJohn College*, Bangalore, India.
I started working as an Assistant Professor in TJohn College, Bangalore in July 2024. I have been actively involved in teaching both undergraduate and postgraduate programs (BCA and MCA). My responsibilities include delivering lectures, conducting lab sessions, and mentoring students in core Computer Science subjects. The subjects I have handled include: Computer Architecture, Operating Systems, Linux and Shell Programming, Artificial Intelligence (AI), Machine Learning (ML) and Mobile Applications Development.
In addition to teaching, I am also involved in academic administration. I currently handle " Result Analysis" for departmental exams and contribute to institutional documentation by coordinating " NAAC Criteria II (Teaching-Learning and Evaluation)" activities.

Jan 2021 – Jun 2021 **Master thesis** , *" Automated Customer Feedback Analysis"* , TeamViewer AG, Germany, Stuttgart .
I did six-month Master's thesis as part of my program at HFT Stuttgart University. I conducted my thesis work in TeamViewer GmbH. Below is the abstract of my thesis work.

Thesis Abstract *Customer feedback analysis is the key to improve the customer satisfaction. We need an automated tool that can analyse vast amount of customer feedbacks and derive valuable insights. Also, there is a need to report the actionables in right format to relevant stakeholders and teams within the company. These things play a major role in overall customer centric business development of the company. There exist many tool vendors that claim to automatically analyse the feedbacks. We need to identify the ways by which we can validate these tool vendors. My entire thesis is in the direction of designing the metric that provides an insight of how well a given tool is performing both quantitatively and qualitatively on TeamViewer data. My thesis also involves coming up with in-house developed algorithm and compare it with external tools.*

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Sept 2019 – Dec 2020 **Software test engineer**, *TeamViewer AG, Germany* , Stuttgart.
I worked as a Software Test Engineer, responsible for designing and executing system-level test cases to ensure the reliability and performance of the TeamViewer Remote Control software suite.

Jun 2013 – Aug 2015 **Personnel administrative department**, *Corporation Bank* , India.
Managed and processed leave records, medical claims, and TA/DA reimbursements for over 60 branches across North Karnataka, ensuring accuracy and timely execution.

Software Skills

Languages	Python,C, Kotlin (Andoid Studio)
Operating system	Windows, Linux and iOS
Tools	Jira, Confluence, TestRail, MS Excel, MS Word, Power Point, Latex
Version Control	git

Certifications & Online Courses

2026 (Upcoming) Enrolled in the following NPTEL/SWAYAM courses starting 19 January 2026:

1. Computer Vision and Image Processing
2. Software Testing

Research & Publications

Book Chapter Authored the chapter *"AI-Driven Data Analytics for Business and Industrial Transformation"* in the edited book *"Artificial Intelligence and Machine Learning: Emerging Trends, Innovations and Future Challenges"*, published by Pencil Bitz (ISBN: 978-93-47785-17-7).

Journal Publication **A Survey on Computer Vision Techniques for Autonomous Navigation in Military Unmanned Aerial Vehicles**, published in *Journal of Advance and Future Research (JAAFR)* (ISSN: 2984-889X), an international open-access, peer-reviewed journal.

Under Review **Vision-Based Navigation Using Transformer Perception Models** (Paper ID: ICCCSS-745), submitted to the International Conference on Interdisciplinary Research in Science, Engineering, and Technology (ICCCSS 2025), currently under review for Scopus-indexed publication.

Conferences

2025 **Vision-Based Navigation Using Transformer Perception Models**, accepted for presentation at the *International Conference on Interdisciplinary Research in Science, Engineering, and Technology (ICCCSS'25)*, Paper ID: ICCCSS-745.

Education

Oct 2018 – Jun 2021 **Masters in Software Technology**, *HFT*, Stuttgart, Germany.
In Hochschule Technik Stuttgart, I received a Master's degree program in Software Technology. I learned advanced knowledge and skills in software engineering, software development, software project management, and related fields.

The conducted courses covered a range of topics including software architecture, software testing, software quality assurance, software project management, software design patterns, software development methodologies, and more.

2009–2012 **Bachelor of Computer Application**, *JSS college*, Dharwad, India.
Theory and practical work in programming languages such as C, C ++, Java and other computer applications.

Project done in Masters

Title *Image classification*

Description Implemented simple machine learning algorithm to classify images into "House" and "Cat" categories. Here is the github link `https://github.com/rajas1990/MyFirstRepo/blob/master/ML_projects/Image_ClassificationBI.ipynb`

Bachelors project work

Title *Software scribe for blind*

Description Application developed to help blind students to take exams. GUI paradigm client-server in which blind students can be registered for exams and undertake exams using headphones and microphones.

Mentoring and Outreach

Actively mentor students interested in higher education abroad, especially in Germany. Guide students on career opportunities, research exposure, and university application processes.

Languages

English **Fluent**

German **A1 level** *Completed 48 hours course and enrolled now for intensive course (1 month, 20 hours per week).*

French **B1 level** *Joined CIREFE at Rennes 2 Univeristy (6 months, 20 hours per week).*

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