

Dr. Ivy Prathap

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OBJECTIVE

Dedicated academic professional with a Ph.D. in Computer Science, committed to excellence in teaching, research, and student mentorship. Passionate about developing innovative learning strategies, fostering inclusive education, and contributing to interdisciplinary research in cybersecurity, AI, and systems engineering. Seeking an opportunity to contribute to academic excellence through impactful teaching and cutting-edge research.

EDUCATION

Ph.D. in Computer Science

Anna University, Chennai, India 2008 - 2015

- **Thesis:** Digital Watermarking Techniques for Authentication and Copyright Protection
- **Supervisor:** Prof. (Dr.) R. Anitha, PSG College of Technology, Coimbatore

M.Sc. in Computer Science

Mahatma Gandhi University, Kottayam 2002 - 2004

TEACHING EXPERIENCE

Assistant Professor (on Contract)

School of Computer Sciences, Mahatma Gandhi University, Kottayam July 2025 - Present

- Delivering engaging undergraduate and postgraduate courses in Computer Science and AI.

Assistant Professor (on Contract)

Institute for Integrated Programmes and Research in Basic Sciences (IIRBS), Mahatma Gandhi University, Kottayam Aug 2023 - June 2025

- Delivered engaging undergraduate and postgraduate courses in Computer Science and AI.
- Designed interactive course materials to enhance student learning outcomes.
- Provided academic mentorship and guidance to students.

Assistant Professor (on Contract)

School of Artificial Intelligence & Robotics, Mahatma Gandhi University, Kottayam

Nov 2021 - Aug 2023

- Taught advanced AI courses, utilizing blended learning methodologies.
- Designed assessments to evaluate student learning effectively.
- Supervised research projects in AI and systems security.
- **Actively contributed to curriculum development and designed the syllabus for advanced AI tracks under the Outcome-Based Education (OBE) framework.**

Assistant Professor (Guest)

School of Computer Sciences, Mahatma Gandhi University, Kottayam

May 2018 - Nov 2021

- Conducted face-to-face and online courses in AI and computational sciences.
- Provided constructive feedback to support independent student learning.
- **Prepared and updated comprehensive course syllabi to align with evolving technology trends under the Outcome-Based Education (OBE) framework.**

Assistant Professor

Sahyajyothi Arts & Science College, Kumily

Jul 2017 - Mar 2018

- Fostered student engagement in programming and data science courses.

Head of the Department & Assistant Professor (Guest)

College of Applied Sciences, Kuttikkanam

Jun 2015 - Mar 2017

- Led curriculum development and faculty coordination in the Computer Science department.

RESEARCH & PUBLICATIONS

Core Research Areas: Artificial Intelligence, Quantum Computing, Reinforcement Learning, Digital Watermarking

Journal Publications

1. Hybrid robust watermarking for color images

Computers & Electrical Engineering (Q1 Journal), Vol. 40, pp. 920-930, Feb 2014

DOI: [10.1016/j.compeleceng.2014.01.006](https://doi.org/10.1016/j.compeleceng.2014.01.006)

2. Robust and blind watermarking scheme for three-dimensional anaglyph images

Computers & Electrical Engineering (Q1 Journal), 40th Commemorative Special Issue, pp. 51-58, Jan 2014

DOI: [10.1016/j.compeleceng.2013.11.005](https://doi.org/10.1016/j.compeleceng.2013.11.005)

Conference Publications

3. Watermark Detection in Spatial and Transform Domains Based on Tree Structured Wavelet Transform

Authors: Prathap, I., Anitha, R.

Security in Computing and Communications (SSCC 2014). Communications in Computer and Information Science, vol 467. Springer, Berlin, Heidelberg

DOI: [10.1007/978-3-662-44966-0_22](https://doi.org/10.1007/978-3-662-44966-0_22)

4. A Novel Approach to Watermark Text Documents Based on Eigen Values

Authors: T. Rethika, Ivy Prathap, R. Anitha, S.V. Raghavan

Proceedings of ESRGroups France, 2009

DOI: [10.1109/ICCNC.2016.7440585](https://doi.org/10.1109/ICCNC.2016.7440585)

ACADEMIC SERVICE & COLLABORATION

Reviewer for leading international journals:

- *Computers & Electrical Engineering* (**Q1 Journal** | Impact Factor: 4.9)
- *IET Image Processing* (Impact Factor: 2.73)
- *Earthquake Engineering and Engineering Vibration* (Impact Factor: 2.8)
- *Journal of Computational Methods in Sciences and Engineering* (Impact Factor: 0.5)