



PRIYANKA PANDEY

Assistant Professor

Department of Mathematics

School of Engineering

Dayananda Sagar University, Bengaluru,

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1. ABOUT

Priyanka Pandey is currently an Assistant Professor of Mathematics at Dayananda Sagar University, Bangalore, with previous academic experience as an Assistant Professor of Mathematics at RKDF University, Ranchi. She holds a Ph.D. in Applied Mathematics from RKDF University, with research expertise in K-Idempotent and K-Idempotent Fuzzy Matrices, eigen-decomposition, and related areas of mathematical research. Her research contributions include publications in international journals, including studies on K-Idempotent Fuzzy Matrices and Eigen-Decomposition of K-Idempotent Matrices. She has also presented research at national and international conferences and has peer-reviewed scholarly work. With broad teaching experience, she has taught mathematics to undergraduate students and contributed to curriculum development, assessment, academic administration, and student learning.

2. RESEARCH INTERESTS

- Linear Algebra
- Image processing
- Artificial Intelligence
- Machine learning
- GenAI

3. ACADEMIC QUALIFICATIONS

- Ph.D. in Mathematics — RKDF University Ranchi, 2024
- Integrated M.Sc. in Applied Mathematics— Central University of Jharkhand, 2013-2018

4. PROFESSIONAL EXPERIENCE

- Assistant Professor— Dayananda Sagar University, 2023 - present
- Assistant Professor & Assistant Registrar Examination— RKDF University Ranchi, 10/2019- 06/2023

5. RESEARCH HIGHLIGHTS

- Publications: 02 / Generalization of K-Idempotent matrices and its properties and application in image processing.
- Awards/Recognitions: Star of the campus Award
- Academic/Conference Roles: Management member
- Reviewer/Editorial Activities: Reviewer and Editor in Asian journal of Mathematics

6. SELECTED PUBLICATIONS

1. Priyanka Pandey "Study of the K-Idempotent Fuzzy Matrix" was published in the

International Journal of Humanities, Engineering, Science, and Management on
December 30, 2022.

2. Priyanka Pandey "Eigen-Decomposition of k-Idempotent Matrices" International Journal of
Research Publication and Reviews, Vol 5, no 2, pp 3360-3362 February 2024

7. ACADEMIC PROFILES

- Google Scholar:

https://scholar.google.com/citations?hl=en&user=7km484UAAAAJ&view_op=list_works&gmla=AKCpgFyJ7kMt6hZqeFs0ZvzLkZTrlfWMzSQTPc815I6TXjZ4XqIXbZ8ZjXEJ3bo0IIFfSCsMR7TMCpwPH7oUC9puqlzPi0-tZ4Tv1-V04hF-jz420gz23elPehcoHd3t3WKNQTJtYENy11U

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8. CONTACT

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