

### **Basic Details:**

- **Name:** Mrs. Pavithra C
- **Designation:** Assistant Professor (OG)
- **Phone Number:** 8310224082
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- **Area or Subject:** Linear Algebra with Machine Learning
- **Affiliation:** Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

### **Educational Details:**

- **Degree** – M. Sc., (Ph. D.)
- **Area or Subject** – Mathematics
- **University**

(Ph. D.) Mathematics – REVA University, Bangalore, Karnataka.

M.Sc. Mathematics – 2018, St. Joseph’s College affiliated to Bangalore University, Bangalore.

B.Sc. Mathematics –2016, St. Joseph’s College affiliated to Bangalore University, Bangalore.

**Research Interests:** Linear Algebra with Machine Learning

### **Publications:**

- Pavithra C., and Saradha M., ‘Integrating Collaborative Filtering Technique using Rating Approach to Ascertain Similarity Between the Users’, Scalable computing: Practice and Experience, ISSN 1891767, Volume 23, Issue 4, pp.171-179, 2022.
- Pavithra C., ‘Application of Graph theory in Google map application’, CJMR Journal Volume 6- Issue 4-April-2019.
- Pavithra C., ‘Study of Blood Pressure model using mathematical modelling method’, Puraka UGC Care, Vol-31-Issue-14-2020 ISSN 0971- 2143.
- Pavithra C., ‘Mathematical modelling of a Tumor growth’, MRGCPSD, Vol-05-Issue-2019 ISBN 978-81-934604-8-1. pg, 112-122.

- Pavithra C Shekar., 'Application of matrix in solution of Business Administration Problems and Cryptography', MRGCPSD, Vol-05- Issue-2019 ISBN 978-81-934604-8-1. pg, 153-160.

#### **Papers Presented in international/national conferences:**

- Presented a Paper entitled "Dimensionality Reduction of 2D digital image using Linear Discriminant Analysis" at the International Conference on Mathematics of Intelligent Computing and Data Science (ICMICDS 2022) Organized by Department of Mathematics and Center of Topology and Applications. RAJAGIRI School of Engineering and Technology, Kerala University.
- Presented a Paper entitled "A Machine Learning Detection: An Improved Method Based on PCA and Support Vector Machines to mitigate Cyber Security" at the International Conference on Mathematical Techniques and Applications (ICMTA- 2023) Organized by the Department of Mathematics, SRM Institute of Science and Technology, Kattankulathur.

#### **Working Papers:**

- Classification and Analysis of Non-linear Separable data set using Support Vector Machines.

#### **Academic Experience:**

- Worked as an Assistant Professor in Lowry Group of Institutions, Dooravaninagar, Bangalore. (June 2018-Feb 2021).

#### **Seminars, Webinars, Workshops and Conferences Attended**

- Attended a Work shop "Computational Mathematics", by CSIR-NAL, Bangalore March 2018.
- Attended a Conference on "Mathematical Analysis in Computational Biology and Data Science (ICMACBDS' 23)" on 24<sup>th</sup> ab 25<sup>th</sup> January 2023.
- **Attended a conference on** "International Conference on Mathematics of Intelligent Computing and Data Science (ICMICDS 2022) Organized by Department of Mathematics and Center of Topology and Applications. RAJAGIRI School of Engineering and Technology, Kerala University.
- **Attended a conference on** "the International Conference on Mathematical Techniques and Applications (ICMTA- 2023) Organized by the Department of Mathematics, SRM Institute of Science and Technology, Kattankulathur.

