Dr. Sriram V

Email: vs140580@gmail.com |
contact: +91- 9535084514

Personal Details
Date of Birth: 14th May, 1980
Languages Known: English, Hindi, Tamil, and Kannada
Permanent Address: No 470 A Jawaharlal Nehru road R.R.Nagar Bangalore-560098
Temporary Local Address: Door No 42/9 Block A Shree Flats
Motilal street T.nagar Chennai-600017

EXECUTIVE SUMMARY

Research-driven mathematician and machine-learning scholar (Ph.D. in Graph Theory; M.Tech in ML, ongoing) with a decade of academic experience and recent industry exposure in banking analytics. My focus is to **lead high-quality publications**, **win competitive grants**, and **build collaborative projects** that translate rigorous theory (spectral/graph methods, QSPR/QSAR) into measurable impact. I have a consistent record of peer-reviewed outputs, cross-institutional collaborations, and mentoring capacity; I'm keen to **guide B.Tech/M.Tech/Ph.D. students**, develop reproducible research pipelines, and establish lab infrastructure and industry links. I welcome teaching and can handle a defined load, but I seek a role where **research is the primary mandate**—publishing in strong venues, writing funded proposals, and growing an interdisciplinary research group aligned to the university's strategic priorities.

TRANSFERABLE SKILLS

Data Science | Mathematics | Research | Graph Theory | Team Collaboration | Adaptability | Problem Solving | Communication Skills | Critical Thinking

EDUCATION

M.Tech (Pursuing)	Data Science and Machine Learning	P.E.S University, Bengaluru, KA	Pursuing
Ph.D.	Mathematics - Graph Theory	Annamalai University, Chidambaram, TN	2012
M.Phil.	Mathematics	Alagappa University, Karaikudi, TN	2004
Master of Science	Mathematics	MES College, Bengaluru, KA	2003
Bachelor of Science	Computer Science, Mathematics, Statistics	Christ College, Bengaluru, KA	2001

TECHNICAL SKILLS

- **Programming Languages:** C++, C, SQL, Python
- **Core Competencies:** Algorithm Development, Data Analysis, Machine Learning, Statistics, Graph Theory
- **Libraries & Frameworks:** NumPy, Pandas, scikit-learn, Statsmodels, SciPy, NLTK
- **Deep Learning & AI:** TensorFlow, Keras, RNN, BiLSTM, Deep Learning, Time Series Forecasting
- **Tools & Platforms:** MapleSoft, Power BI (working level), Tableau (working level), Big Data (Hadoop/Spark)

CERTIFICATIONS

- Data Visualization with Power BI | Great Learning | 2023
- Hands-On Introduction: SQL | LinkedIN Learning | 2024

PROFESSIONIAL AFFILLIATIONS

- Lifetime member of Academy of Discrete Mathematics and Graph Theory (ADMA)
- Life member of Ramanujan Mathematical Society (RMS)

WORK EXPERIENCE

August 2025 - Present | Special officer at City Union Bank on contract basis (Helping ML freshers in model building)

August 2022 - August 2023 | RajaRajeshwari College of Engineering, Bangalore

October 2019 - August 2022 | Assistant Professor, Jain University FET Campus, Bangalore

.

July 2018 - October 2019 | MES Degree College

PAST WORK EXPERIENCE

- October 2016 - September 2017 | Assistant Professor, Global Institute of Management Sciences, Bangalore
- February 2015 - March 2016 | NBHM-Post-Doctoral Fellow, Bangalore University and BITS Pilani Goa Campus
- March 2014 - December 2014 | Assistant Professor, Oxford College of Science, Bangalore
- August 2012 - January 2014 | Assistant Professor, Alliance University, Bangalore
- November 2011 - May 2012 | Assistant Professor, MVJ College of Engineering, Bangalore

PROJECTS

Mtech Thesis (Pursuing) : *Application of Degree-Topological Indices in QSAR Modeling: A Graph-Theoretical Approach (Therapeutics)*

In collaboration with **BITS Pilani – Goa Campus** and **PES University, Bangalore**, this project explores the use of mathematical graph-based topological indices in Quantitative Structure–Property Relationship (QSPR) modeling for chemical compound analysis and property prediction. (To Publish a good Standard paper out of this work)

Capstone Project :

Title: *Application of Topological Indices in QSPR Modeling: A Graph-Theoretical Approach*
In collaboration with **BITS Pilani – Goa Campus** and **PES University, Bangalore**, this project explores the use of mathematical graph-based topological indices in Quantitative Structure–Property Relationship (QSPR) modeling for chemical compound analysis and property prediction.

Product Rating Prediction: Developed a model to predict product ratings given by buyers on an E-commerce site. The dataset consisted of unique product IDs, review titles, detailed product reviews, and binary ratings (0 for negative and 1 for positive). The project involved text preprocessing, feature extraction, and building a classification model to accurately predict whether a product review was positive or negative. Various techniques such as tokenization, padding, and deep learning models were utilized to achieve high accuracy in predicting product sentiment.

Fake vs Real Face Recognition :
Deep learning model from scratch and compare it with that of using pre-trained models that can accurately distinguish between fake and real images using the provided images for training (Done using Transfer Learning Techniques and computer vision)

Sun Spot Count Forecasting:
Demonstrated time series data processing skills by forecasting the number of sunspots over a period of 10 years using Python libraries like Numpy, Pandas, sklearn, statsmodels, and time series packages such as ARIMA

ML2 Hackathon-Employee Attrition using python: Developed a classification model using Python, leveraging libraries like Numpy, Pandas, sklearn, and statsmodels, and validated assumptions with precision, recall, and other classification metrics.

Bangalore House pricing project using python

Python Supervised Machine Learning model, Numpy, Pandas, sklearn, statsmodels and several other library to best RMSE score with assumptions

checked with various charts and statistical tests

Statistical Analysis and regression on Life Expectancy data Cases of Ebola

Python Supervised Machine Learning model, Numpy, Pandas, sklearn, statsmodels and several other library to best RMSE score with assumptions checked with various charts and statistical test sklearn, statsmodels

EDA on Productivity Prediction of Garment Employees

Exploratory Data analysis on Garment Employees data set using various Statistical techniques and visualizations
Hypothesis Testing using Python
Various types of Hypothesis testing based on characteristics of the data whether they are normal etc to decide on Parametric and non-parametric tests , AVOVA etc

OTHER INFORMATION

Accomplishments:

- Attended the National Workshop on "Decomposition of Graphs" at Annamalai University (July 2006).
- Presented "Square sum Labelling" at the 4th National Conference on Emerging Trends in Graph Theory, Christ University (February 2013).
- Attended the Instructional Workshop on "Hypergraphs and Matroid Theory" at Annamalai University (March 2012).
- Presented "Packing copies of special graphs G in its cube" at the 34th Annual Conference of the Ramanujan Mathematical Society (August 1-3, 2019).
- Presented "Cyclic orthogonal double covers of 6-regular circulant graphs by disconnected forests" at IGCTA-2019, SSN College of Engineering (November 20-21, 2019).
- Participated in Tool-Based Computational Mathematics Using Matlab at Jain University (September 7-25, 2021).

Publications:

1. R. Sampathkumar and V. Sriram, "Orthogonal σ-Labeling of graphs," AKCE International Journal of Graphs and Combinatorics, 5, No 1 (2008), 57-60.
2. R. Sampathkumar and V. Sriram, "Packing Copies of the cube into its third power," Bulletin of the Institute of Combinatorics and its Applications, vol. 62 (2011), 90–94.
3. R. Sampathkumar and V. Sriram, "Orthogonal double cover 4 - regular circulant graphs," Utilitas Mathematica, Vol. 98 (2015), 85-95.
4. S Padmapriya, Dr. V. Sriram, Dr. B. Sooryanarayana, "Edge-odd gracefulness of the wheel Graph," Vol. 2 Issue 6, June 2013, 987-989.
5. Medha Itagi Huilgol and V. Sriram, "Square sum Labeling of Disjoint union of Graphs," Journal of Graph Labeling Vol 2 (2) (2016), 103-106.
6. Medha Itagi Huilgol and V. Sriram, "On Harmonious coloring of certain class of Graphs," Journal of Combinatorics, Information & System Sciences 41 (1-3), 2017.
7. Medha Itagi Huilgol and V. Sriram, "Packing Copies of cartesian product of certain classes of Paths and Cycles into Power graphs," Journal of Combinatorics, Information & System Sciences 43 (1-4), 79-91, 2018.
8. Medha Itagi Huilgol and V. Sriram, "New results on distance degree sequences of graphs," Malaya Journal of Matematik, Vol. 7, No. 2, 345-352, 2019.
9. V. Sriram, "Cyclic orthogonal double covers of 6-regular circulant graphs by disconnected forests," TWMS J. App. and Eng. Math. V.11, Special Issue, 2021, pp. 1-12.
10. Medha Itagi Huilgol, V Sriram, Krishnan Balasubramanian, "Tensor and Cartesian products for nanotori, nanotubes and zig–zag polyhex nanotubes and their applications to 13C NMR spectroscopy," Accepted 24 Aug 2020, Published online: 14 Sep 2020.
11. Medha Itagi Huilgol, V. Sriram, "A CUBIC SELF-CENTERED DISTANCE DEGREE INJECTIVE (DDI) GRAPH," vol 10, 2021, pp. 673–678.
12. Medha Itagi Huilgol, V Sriram, Krishnan Balasubramanian, "Structure–activity relations for antiepileptic drugs through omega polynomials and topological indices," Accepted 23 Sep 2021, Published online: 21 Oct 2021.
13. Medha Itagi Huilgol, V. Sriram, H. Jayakrishna Udupa, Krishnan Balasubramanian, "Computational studies of toxicity and properties of β- diketones through topological indices and M/NM-polynomials," Computational and Theoretical Chemistry, Volume 1224, 2023.