



**Name** : Mrs. V. Abinaya  
**Designation** : Faculty Associate  
**Department** : Computer Science – UG  
**Qualification** : M.C.A., M. Phil., (Ph.D)  
**Experience** : Teaching : 5 Year 10 Months  
**Area of Specialization(s)** : Soft computing, Machine Learning  
**Email (Official ID)** : v\_abinaya@psgrkcw.ac.in



#### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D	Computer Science	Rathnavel Subramaniam College of Arts and Science	Pursuing (Synopsis Submitted)
M. Phil.	Computer Science	PSG College of Arts and Science	2017
MCA	Computer Applications	PSGR Krishnammal College for Women	2015
BCA	Computer Applications	PSGR Krishnammal College for Women	2013

#### Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Basics of Python	Computer Science	Infosys Spring board	24 Nov 2022
EBSCO Information Services Customer Engagement Services Certificate of Completion	Research	EBSCO	24 Aug 2022
NPTEL	Data Mining	Indian Institute of Technology, Kharagpur	2018
Introduction to Computers	Computer Science	IIT Bombay	2021
Libre Office Suite Base Training	Computer Science	IIT Bombay	2021

### Research Publications (Indexed)

1. Innovative Soft Computing Techniques for Diabetes prediction Using Hybrid GWOPSO and Enhanced LSTM in Scopus indexed journal Nanotechnology Perceptions ISSN 1660-6795 Dec 2024 Vol 20 No S16 pg no 1300-1309
2. Diabetic Prediction Using Soft Computing Techniques A Review of the Literature February 2025 | IJIRT | Volume 11 Issue 9 | ISSN: 2349-6002 INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY pg.no 337-340
3. Optimized Diabetes prediction Using Soft computing: CURE-ADASYN for imbalance and Advanced Deep Learning Classification Methods In Scopus indexed journal international Journal Environmental Sciences ISSN: 2229-7359 Vol,11 No 15s,2025 pg.no 170-178
4. V.Abinaya,R.Karthikeyan,Arun Prasaath. J, **Application of Altman Z-score model to analyse the financial performance of maruti suzuki india limited**, international journal of creative research thoughts - ISSN - 2320 -2882 - VOL.10, ISSUE - 7, July 2022 , IMPACT FACTOR - 7.97 - PP. E339-E443. (UGC Listed).
5. V. Abinaya, V. Jayashree, K. Kalaivani, **Text Analysis on Twitter Dataset using Neural Network and Bayesian Classifier**, International Journal of Creative Research Thoughts, Volume 6, Issue 2 April 2018 | ISSN: 2320-2882 Vol. 6, Issue 2, April 2018, ISSN: 2320-2882. (UGC Listed).

### Presentations in Conference

1. Enhanced Diabetes Prediction Using Deep Learning framework” Enhanced Diabetes Classification Using CNN and Bidirectional LSTM Hybrid Approach SEP 19 2025 ACHARYA INSTITUTE OF GRADUATE STUDIES Hyderabad IEEE sponsored Conference
2. ICRTMRI'24 International conference “TYPE-2 Diabetic Prediction using ANN Technique: at A.V.P College of Arts and Science,tirupr,SEP 13 2024
3. 7th International conference "shastrath-2022" on **Computational Optimization modelling and simulation: Recent trends and challenges** on 25,26 march 2022 Rungta college of engineering and technology,Bhilai
4. **Text Analysis using Neural Network**, International Conference on Information Technology for Business Turn Around: Sustainability, Growth and Innovation, Vivekanandha College of Arts and Science for Women, Tiruchengode, 1 & 2-Feb-18.

## **Participation in Workshop**

- 1) **One day workshop on Outcome based Education (OBE)** , ipsr Solution Limited, at Dr.N.G.P Arts and Science College on 4<sup>th</sup> March 2023.
- 2) **Tools and Techniques of Data Analysis for social science Research**,PSG College of Arts and Science 31 oct to 8<sup>th</sup> Nov 2022.
- 3) **Creating Awareness on Menstrual Health and Hygiene Management among Rural and Tribal Adolescent Girls in Pollachi Taluk**, Bharathiar University Arts and Science College, Pollachi, 23 & 24 –Feb -18.
- 4) **E-Resources and Art of Publishing Research Papers**, PSG College of Arts & Science, Coimbatore 19 -Jan-16.
- 5) **Recent Trends in Machine Learning**, PSGR Krishnammal College for Women, Coimbatore, 9 to 11- Feb-16.

## **Participation in Faculty Development Programme**

- ❖ **“Funded research project proposal preparation and submission protocol”** ,National Level Virtual Faculty Development Programme, organised by Centre for Research and Development, CMS College of Science and Commerce,Coimbatore on 31st March 2022.
- ❖ **Five days IQAC FDP Series-2022**, SankaraCollege of Science & Commerce ,24<sup>th</sup> Jan-29<sup>th</sup> Jan 2022.
- ❖ **Artificial Intelligence and Cloud Services**, Sri Ramakrishna College of Arts and Science (Autonomous), Coimbatore, Tamil Nadu from 31-10-2022 to 04-11-2022.
- ❖ **Three Days National Level Virtual -Faculty Development Programme on Securities Market**, PSGR Krishnammal College for Women ,27<sup>th</sup> Nov-30 Nov 2021.
- ❖ **Research Methodology and Pedagogy for Tertiary Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 15 June 2021 to 21 June 2021.
- ❖ **Quality Initiatives in Higher Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 3- Dec- 18 to 9-Dec-18.
- ❖ **Developing Enterprise Applications using .Net Framework**, PSGR Krishnammal College for Women, Coimbatore, 4-Sep-12.
- ❖ **Data Science**, PSG College of Technology, Coimbatore, 22-Jan-17.

- ❖ **Soft Computing Techniques for Engineering Research**, P.S.G. College of Technology, Coimbatore, 18 to 24-July-18.

### **Participation in Webinar**

#### **National**

- ❖ **“CITATION MANAGEMENT using MENDELEY”**, CSI Student Chapter, Sri Ramakrishna College of Arts & Science, Coimbatore-06. 28th September 2021.
- ❖ National Level Virtual Seminar on **“Prospective Areas in Computational Intelligence”**, Department of Computer Science with Data Analytics & Department of Networking and Mobile Application, PSG College of Arts & Science, 17<sup>th</sup> March 2021.
- ❖ **“ARTIFICIAL INTELLIGENCE”**, Anand Institute of Higher Technology, Chennai 603103, 11<sup>th</sup> May 2020.
- ❖ **“COVID-19 & AFTERMATH IN WORLD ECONOMY”**, PSG COLLEGE OF ARTS & SCIENCE, Coimbatore-06, 6th, 7th & 8th May 2020.
- ❖ **“Examinations in wake of COVID-19”**, K. A. (P.G.) College Kapoor Chand, Amapur Road, Kasganj, Uttar Pradesh—207123, 05th May 2020.
- ❖ **“How to Use Turnitin Software for your Research Turnitin Online on Campus”**, GURU NANAK INSTITUTE OF MANAGEMENT STUDIES Mumbai, May 04, 2020.

### **Competetion / Quizz Participation**

- **“Intellectual Property Rights”**, NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY T.M.Palayam Coimbatore-64105, passing score of 100% Marks. online Quiz, 9<sup>th</sup> May 2020,

### **Conference / Seminar / Workshop Organized**

- Organizing Member, National Conference on Artificial Intelligence in Modern Business era, Dr. N.G.P. Arts and Science College, Coimbatore, 17 Feb 2023.
- Organizing Member, Lecture Series on Recent Trends in Commerce ,”Information Retrieval”, Dr. N.G.P. Arts and Science College, Coimbatore, 1<sup>ST</sup> June 2021.
- Organizing Member, National Conference on Opportunities and Challenges of Business in the Digitalized Era, Dr. N.G.P. Arts and Science College, Coimbatore, 27 & 28-Sep-18.
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## **Certificate of Appreciation**

- **IQAC Department Representative** during NACC- 3<sup>rd</sup> Cycle , Dr.N.G.P Arts and Science College 2021-2022.
- News letter editorial team member June 2021-May-2022