

CURRICULUM VITAE

Dr. P. GANESH MCA., M.Phil., Ph.D.,

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Mobile No: 9600874792

Teaching Experience: 9 Years



OBJECTIVE

Seeking a position as an Assistant Professor in the Department of Computer Science, Computer Applications, Data Science & Artificial Intelligence, where I can leverage my expertise in machine learning, deep learning, and AI-driven solutions to contribute to academic excellence. Passionate about research, innovation, and mentoring students in cutting-edge technologies. Committed to curriculum development, interdisciplinary collaboration, and fostering a dynamic learning environment. Eager to contribute to research publications, grant proposals, and industry partnerships for academic growth.

EDUCATION

- Completed a **Ph.D (Full-Time)** at Nallamuthu Gounder Mahalingam College, Pollachi, affiliated with Bharathiar University, under the **ICSSR Doctoral Fellowship of ₹5,20,000** (File No. RFD/2022-23/GEN/ENV/304) on 7th April, 2025
- Completed **M.Phil** (Part Time) in Computer Science at Shri Nehru Maha Vidyalaya College of Arts & Science – Bharathiar University, Coimbatore in 2019
- Completed **MCA** in Mepco Schlenk Engineering College, Sivakasi - Anna University with 7.5 (CGPA) in 2013
- Completed **BCA** in Sri Kaliswari Arts and Science College, Sivakasi - MKU University with 73.15(PERCENTAGE) in 2010

BOOK PUBLISHED

Published a book under the title “**Internet of Things: A Practical Approach using Arduino IDE**”, IMPRINT: I I P Iterative International Publishers with **ISBN: 978-93-5747-641-6** in March, 2024. In the 2024-25 academic syllabus for the final-year BCA Department, my book was prescribed as a textbook for the Internet of Things course. <https://www.amazon.in/Internet-Things-Practical-Approach-Arduino>

EDITORIAL CONTRIBUTION

Acted as a Chief Editor for the Proceedings of DLCIS’24 – Two Day National Conference on **Deep Learning & Computer Interaction for Sustainability**, NGM College, Pollachi on 10th & 11th January, 2024, **ISBN: 978-93-94004-73-3**.

PATENT PUBLISHED

- Published a patent under the title **“User Friendly Accident Detection for Cybersecurity using CCTV Footages with aid of CNN and application”** in Indian Patent Advanced Search System (inPASS), App No. 202441041085 dated on 27/05/2024.
- Published a patent under the title **“Optical Character Recognition using RESTBET50 and application”** in Indian Patent Advanced Search System (inPASS), App No. 202441038261 dated on 15/05/2024.

FELLOWSHIP RECEIVED

Awarded the **ICSSR Doctoral Fellowship** of ₹5,20,000 (File No. RFD/2022-23/GEN/ENV/304) for the period **2022-2024 (2 years)** and successfully completed a research project titled **"Deep Learning Approach in Separation and Collection of Solid Waste in Coimbatore District of Tamil Nadu."**

PROJECT APPLIED

- Applied for the **ICSSR Special Call 2023-24** under the PM Fasal Bima Yojana, proposing a project titled **"Artificial Intelligence Approach to Detect Rugose Spiraling Whitefly and Root Wilt Disease of Coconut Palms to Overcome Crop Loss in Pollachi Taluk, Tamil Nadu."** The project was submitted with a proposed budget of **₹5,34,000**. Application No. (ICSSR-CRP-2023-1611)
- Applied for the **ICSSR Minor Research Project (2023-24)** under Health Studies, proposing a project titled **"Development of Artificial Intelligence in Predicting Anemia at an Early Stage: A Study of Anemia in Tribal Pregnant Women at Sembukkarai and Thumanur Villages in Coimbatore District."** The project was submitted with a proposed budget of **₹9,72,000**. Application No. (ICSSR-RMM-2023-5908)
- Submitted a project proposal to the **Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi**, titled **"Artificial Intelligence Approach to Detect Rugose Spiraling Whitefly and Root (Wilt) Disease of Coconut Palms in Pollachi Taluk of Tamil Nadu."** The project is proposed in collaboration with Vanavarayar Institute of Agriculture with a budget of **₹45,06,000** for a duration of 3 years. (Application No. 49131)
- Applied for three UGC Minor Research projects on Smart Dustbin, IoT Smart Dam to overcome flood and Salt Analysis work flow for the budget of **₹ 20000**.
- Applied project for TNSCST on Visually Impaired Navigation App using ultrasonic sensor for the budget of **₹ 10000**.

- Applied for the **Government of Tamil Nadu, Department of Higher Education, Chief Minister's Research Grant (2023-2024)** under the project titled **"Artificial Intelligence Approach to Detect and Control Rugose Spiraling Whitefly and Root Wilt Disease of Coconut Palms in Pollachi Taluk, Tamil Nadu."** The project was submitted with a proposed budget of **₹6,26,000** for a duration of three years.

JOURNAL PUBLISHED

- Published a paper on **"Comparison of Biodegradable and Non-Biodegradable Waste Detection Algorithm using YOLO v7 vs Faster R-CNN for Auto Segregation"**, Journal of Electrical Systems (*Scopus Indexed*), Vol. 20 No. 10s (2024), Page No. 1851 – 1859, July 2024.
- Published a paper on **"A Deep Learning Approach in Garbage Sorting System Using Cascade Mask R-CNN With SWIN Transformer Backbone"**, Journal of Novel Research and Innovative Development, Volume 2, Issue 6, 2024 Page No. a148 – a154, June 2024.
- Published a paper on **"Feature-Enhanced CenterNet for Small Object Detection in Biodegradable and Non-Biodegradable Auto Segregation"**, International Journal of Innovative Research in Technology (*UGC CARE*), Volume 11 Issue 1, 2024, Page No. 2348 – 2352, June 2024.
- Published a paper on **"RECURRENT DETR: Transformer-based Biodegradable and Non-biodegradable Waste Detection With Auto Separation"**, Journal of the Maharaja Sayajirao University of Baroda (*UGC CARE*), Volume-58, No.1(VI) : 2024 Page No. 116 – 125, July 2024.
- Published a paper on **"Design and Implementation for Automatic Waste Segregation Using Deep Learning Technology"**, Adalya Journal (*Web of Science*), Volume 13, Issue 3, March 2024.
- Published a paper on **"An Intelligent Garbage Sorting System Based on Edge Computing"**, Journal of the Maharaja Sayajirao University of Baroda, (*UGC CARE*), Volume-58, No.1(II): 2024, Page No. 18 – 28, March 2024.
- Published a paper on **"Deep Learning Approach in Separation of Biodegradable and Non – Biodegradable waste using Faster R-CNN"**, The Indian Journal of Technical Education, (*UGC CARE*), VOLUME 46 SPECIAL ISSUE, JUNE, 2023, Page No. 32 – 39, June 2023.
- Published a paper on **"Study of YOLOv7 Algorithm to Predict Biodegradable and Non-biodegradable Solid Waste"**, Journal of the Maharaja Sayajirao University of Baroda (*UGC CARE*), Volume-57, No.1(V): 2023, Page No. 75 – 94. August, 2023.[9] **"Granulated RCNN and Multi-class Deep Sort for Biodegradable and Non-biodegradable Solid Waste Detection"**, International Educational Scientific Research, Volume: 9, Issue: 9, Special Issue June-2023.
- Published a paper on **"Artificial Intelligence Based Smart Dustbin Collector for Sustainable Environment"**, Journal of Xi'an Shiyu University (*SCOPUS Indexed*), Natural Science Edition, Volume 16, Issue 7, July 2020.
- Published a paper on **"Feature-Enhanced Center Net for Small Object Detection In Biodegradable And Non-Biodegradable Auto Segregation"**, John Foundation Journal of EduSpark, 6(3), 16-27, International Journal of Multidisciplinary Research Studies Journal Vol.6, Issue.3, July - September 2024

- Published two papers in National Conference under the topics **IoT Fire Detection Alert System Though Webpage** and **IoT Smart Room** held at S. Vellaichamy Nadar College, Madurai.
- Published a paper in National Seminar on **Tamil News Feed** at Madurai Sivakasi Nadars Poiner Meenakshi Women's College, Poovanthi, Sivagangai.
- Published a paper in International Journal of Advanced Research in Basics Engineering Sciences and Technology under a topic **Security policy composition and rollback recovery for composite web services** at Sri Vidya Engineering College, Sivakasi.
- Published a paper in International Journal on Computational Intelligence and Data Science under the topic **Crop Prediction by monitorial rainfall and temperature using decision tree with IoT and Cloud based system** at Sankara College of Science and Commerce, Coimbatore.
- Published a paper in International Conference on Emerging Trends in IoT & Machine Learning under the topic **Crop Prediction by monitorial rainfall and temperature using decision tree with IoT and Cloud based system** at Mangayarkarasi College of Arts and Science for Women, Paravai, Madurai.

CONFERENCE ATTENDED

- Presented a paper titled "**Secure Cloud-Based Solid Waste Level Monitoring System**" at the National Conference on Recent Trends in Engineering & Technology (NCRTET'23), held on May 13, 2023, at **Gojan School of Business and Technology, Chennai – 600052**.
- Participated in the One-Day National Conference on Innovations in Computing Technologies (NCICT'23) on May 22, 2023, at **Anna University Regional Campus, Coimbatore – 641046**, and presented a paper titled "**Granulated RCNN and Multi-Class Deep SORT for Biodegradable and Non-Biodegradable Solid Waste Detection.**"
- Presented a research paper titled "**AI Approach in Classification of Solid Waste Using Convolutional Neural Network**" at the International Conference on Smart Innovative Technologies on Data Analytics (ICSITDA 2023), held on May 26, 2023, at **Ayya Nadar Janaki Ammal College, Sivakasi – 626124**.
- Contributed to the International Conference on Technological Advancements in Science, Engineering, and Management, held on June 2-3, 2023, at **JCT College of Engineering and Technology, Coimbatore – 641105**, by presenting a paper titled "**Deep Learning Approach in Separation of Biodegradable and Non-Biodegradable Waste Using Faster R-CNN.**"
- Presented a paper titled "**Comparative Analysis of Deep Learning Biodegradable and Non-Biodegradable Solid Waste Detection using SSD, Faster R-CNN & YOLO-v5 Algorithms**" at the 7th International Conference on Computational Intelligence (INCCI 2024), held on December 8, 2023, at **Kristu Jayanti College, Autonomous, Bengaluru**.
- Participated in the Two-Day International Conference on Advanced Systems and Emerging Technologies, held on December 20-21, 2023, at **Nadar Saraswathi College of Arts and Science, Theni**, and presented a paper titled "**Deep Learning Approach in Classifying Biodegradable & Non-Biodegradable Waste Using Convolutional Neural Network.**"

- Presented a paper titled "**Deep Learning-Based Smart Dustbin Collector for a Sustainable Environment**" at the Two-Day National Conference on Deep Learning & Computer Interaction for Sustainability, held on December 22, 2023, at **NGM College, Pollachi**.
- Presented a paper titled "**Deep Learning Approach to Predict Biodegradable and Non-Biodegradable Solid Waste Using YOLO V7 Algorithm**" at the International Conference on Environmental Development using Computer Science (ICECS'2024), held on January 11-12, 2024, at **AAA College of Engineering and Technology, Sivakasi**.
- Participated in the ICSSR, New Delhi, Sponsored One-Day National Seminar on "India 2.0: Vision for India 2047", held on January 24, 2024, at **NGM College, Pollachi**, and presented a paper titled "**Artificial Intelligence-Based Smart Dustbin Collector for a Sustainable Environment.**"

WORKSHOP / SEMINAR ATTENDED

- Attended a One-Day National Level Seminar on "**Futuristic AI & Open-Source Software**" held on September 13, 2023, at Nehru Arts & Science College, Coimbatore.
- Participated in a Hands-On **Workshop on SPSS**, conducted on December 13, 2023, at Kumaraguru College of Liberal Arts and Science, Coimbatore.
- Attended NAAC Sponsored workshop on **Role of Information Communication Technology** at Ayya Nadar Janaki Ammal College, Sivakasi in August 10, 2018.
- Attended National Conference on **Cyber Security** at Kalasalingam Arts and Science College, Krishnakovil in April 26, 2018.
- Appeared five-day Workshop on **Cloud Computing** by ICT Academy at Ramco Engineering College, Rajapalayam from January 08 to 12, 2018.
- Appeared two day Workshop on **Introduction to R Programming** by ICT Academy at Ayya Nadar Janaki Ammal College, Sivakasi in October 23, 2018.
- Attended two day workshop on **Big Data Analytics and Visualization Tools** at Mepco Shlenk Engineering College, Sivakasi in February 16, 2017.
- Attended two day workshop on **Data Visualization and Machine Learning using PYTHON** at SNMV College of Arts and Science Institute of Management, Coimbatore in Dec 18, 2016.

RESOURCE PERSON

- Served as a Resource Person to deliver a One-Day Workshop on "**Artificial Intelligence in Commerce**" for III B.Com students at **Sri Kaliswari College of Arts & Science, Sivakasi** on 17.02.2025.
- Served as a Resource Person to deliver a One-Day Workshop on "**Internet of Things & Robotics**" at **Arumugham Palaniguru Arts and Science College, Rajapalayam** on 03.01.2025.
- Acted as a Chief Guest and delivered a One-Day Workshop on "**Machine Learning with IoT**" at **Sri Krishnasamy Arts and Science College, Sattur** on 23.01.2025.

- Acted as a Resource Person for a Guest Lecture on **"Full Stack Development"** for B.Sc (IT) students at **Standard Fireworks Rajaratnam College for Women, Sivakasi** on 21.09.2024.
- Acted as a Special Guest for Science Day and delivered a **One-Day Workshop on Robotics** for 8th & 9th-grade students at **AAA CBSE School, Thiruthangal** on 14.02.2025.
- Served as a Resource Person and conducted a One-Day Workshop on **"Real-Time Implementation in IoT"** for B.Sc (IT) students at **NGM College, Pollachi** on 06.03.2024.
- Acted as a resource person in cluster department meeting and handled session on **App Development using App Inventor** at **Ayya Nadar Janaki Ammal College, Sivakasi** on 08.10.2018.
- Acted as a resource person to handle a session on **Preparation for I Paper in NET Exam** at **The Standard Fireworks Rajarathnam College for Women, Sivakasi** on 11.10.2017.
- Acted as a resource person to handle one day hands on training on **Photo Editing using Photoshop** held at **Shri Nehru Maha Vidyalaya College of Arts & Science, Coimbatore**.
- Handled one day workshop on **Android App Development using App Inventor** for MCom (CA) students at **Ayya Nadar Janaki Ammal College, Sivakasi** on 27.01.2017.
- Acted as a resource person to deliver a talk on Motivation and Soft Skill at **SIPT Polytechnic College, Sivakasi** on 04.01.2017.
- Acted as a resource person in Association meeting and handled session on **Internet of Things (IoT)** at **Ayya Nadar Janaki Ammal College, Sivakasi** on 09.11.2016.
- Acted as a resource person in cluster department meeting and handled session on **Cyber Security (Hacking)** at **Ayya Nadar Janaki Ammal College, Sivakasi** on 30.12.2016.
- Acted as a resource person to handle one day hands on training on **.NET Programming** held at **Shri Nehru Maha Vidyalaya College of Arts & Science, Coimbatore** on 13.09.2016.
- Handled one day workshop on **Android App Development using Android Studio** for B Com (CA) students at **Ayya Nadar Janaki Ammal College, Sivakasi** on 16.02.2016.
- Delivered a talk on **Challenging Interview** for final year Computer Students at **Ayya Nadar Janaki Ammal College, Sivakasi** on 21.01.2016.
- Acted as a resource person in Association meeting and handled session on **Cyber Security (Hacking)** at **Ayya Nadar Janaki Ammal College, Sivakasi** on 13.08.2015.

ROLE IN INSTITUTION

- Served as the Organizing Secretary for the Two-Day National Conference on "Deep Learning & Computer Interaction for Sustainability", conducted by the Department of BCA at NGM College on 10th and 11th January 2024.
- Served as the Incharge of Criteria V (Student Support) at Sri Vidhya College of Arts & Science, Virudhunagar. Played a key role in implementing student support initiatives and academic enhancements.

- Served as the Organizing Secretary for the State-Level Intercollegiate Meet, conducted by the Department of Computer Science & BCA at Sri Vidhya College of Arts & Science, Virudhunagar.
- Developed software for (AARC) Elective Paper Selection for both UG and PG students, which is currently being used at Ayya Nadar Janaki Ammal College, Sivakasi.
- Served as a Member of CTET and developed MLM for .NET database connectivity and an Android tutorial application for EVS.
- Acted as a Member of NAAC Criteria V (Student Support) since 2013.
- Contributed to the preparation of reports for NAAC, NIRF, and the Star College Scheme.
- Served as a Member of the Board of Studies for B.Sc (CS) and M.Sc (CS) and played a key role in designing a new syllabus on .NET using MVC, IoT, and Android for the academic years 2020–2023.
- Played an active role in organizing workshops, seminars, and guest lectures under the Autonomy Grant, UGC Grant, and Star College Scheme.
- Participated in the MoU signing process for the academic year 2017–18, facilitating collaborations with four industries.
- Organized Association Meetings by coordinating events such as Quiz, Software Marketing, Paper Presentation, Group Discussion, and Mock Interviews.
- Served as an IIT Mumbai Spoken Tutorial Tutor, conducting Online Spoken Tutorial Courses.

ICT ENABLED TEACHING TOOLS

- Focused on various teaching aids and methodologies, including interactive boards, LCD projectors, video conferencing kits, BYOD (Bring Your Own Device), Student Assessment Response System (Genie Pads), Kindle, and cloud-based tools for conducting quizzes and assignments using Team Viewer.
- Utilized cloud platforms such as Cloud9, CodePad, Box, and Piazza.com for programming and collaborative learning.
- Effectively managed Google Classroom, Google Blogger, and Google Forms for conducting assignments and assessments.
- Integrated IoT cloud services to interact with Arduino, NodeMCU, and Raspberry Pi, combined with AI-based applications, to enhance practical learning experiences for students.

ACADEMIC PROJECTS

- **Deep Learning Approach in Separation and Collection of Solid Waste in Coimbatore District of Tamil Nadu (Ph.D):** This research utilizes deep learning models to automate the segregation and collection of solid waste for efficient waste management. It aims to enhance waste classification and streamline disposal processes in Coimbatore using AI-driven techniques.

- **Crop Prediction by Monitoring Temperature and Rainfall Using Decision Tree with IoT and Cloud-Based System (M.Phil):** Implemented in R language, this method predicts optimal crops for cultivation by analyzing climatic changes. IoT devices fetch real-time temperature and rainfall data, upload it to AWS IoT, and use the ID3 Machine Learning Algorithm to predict profitable crops based on historical agricultural datasets.
- **Visual Steganography for Secure Banking Application (MCA):** This project enhances banking security by embedding account passwords into audio files to prevent hacking. It supports various transactions, including bill payments for telephone and mobile services, ensuring secure authentication.
- **E-Mail Cryptography (BCA):** This system encrypts email content at the sender's end to prevent unauthorized access during transmission. The recipient decrypts the message upon arrival, ensuring secure email communication against cyber threats.

SPECIAL ACHIEVEMENT

Managing a YouTube channel “**Tech Fever Tablet**” dedicated to sharing insights on the latest technologies, including Android App Development, Machine Learning, AI, IoT, and Robotics, along with project development tips. Started in August 2018, the channel has uploaded 314 videos and gained 31,400+ subscribers to date.



Scan QR code to get my channel – tech fever tablet

TECHNICAL EXPERIENCE

- | | |
|-------------------------|--|
| • Operating Systems | : Windows, Linux, Raspbian |
| • Programming Languages | : C, C++, Java, Python |
| • Databases | : MS, ORACLE, SQL Server, Firebase |
| • Key Skills | : Android Studio, .NET, IoT, Data Science, Data Mining, AI |
| • Tool | : App Inventor 2, MATLAB |
| • Designing | : Photoshop, CorelDRAW |

AREA OF INTEREST

- C, C++, Java, Python
- Embedded, Robotics, IoT, Cloud IoT
- Data Mining, Image Processing, Machine Learning, Data Science, Artificial Intelligence
- Dot Net Framework
- Web Development, Mobile App Development, Graphics Design

TEACHING EXPERIENCE

- Worked as an Assistant Professor in the Department of Computer Science at Ayya Nadar Janaki Ammal College (ANJAC), Sivakasi, an autonomous institution affiliated with Madurai Kamaraj University, Tamil Nadu, from 2013 to 2019 (6 years).
- Worked as an Assistant Professor in the Department of Computer Science at Sri Vidhya Arts and Science College, Virudhunagar, affiliated with Madurai Kamaraj University, Tamil Nadu, from 2019 to 2022 (3 years).

PERSONAL PROFILE

Name	:	Dr. P. Ganesh
Father's Name	:	V.Pitchaikani
Father's Occupation	:	Farmer
Date of Birth & Age	:	10-Jan-1990 & 34
Gender	:	Male
Marital Status	:	Married
Nationality	:	Indian
Religion	:	Hindu
Permanent Address	:	725G/B/G4, Sukkiravarpatti Road, Near Thiruthangal Government Hospital, Thiruthangal-626130, Virudhunagar District, Tamilnadu, India.
Email ID	:	mailtopganesh1990@gmail.com
Languages	:	To speak, read, write - Tamil, English.

DECLARATION

I hereby declare that particulars in the curriculum vitae are correct to the Best of my knowledge and belief.

Place: Thiruthangal

Date : 08.05.2025

(Dr. P. GANESH)