

Dr. P. SUDHASINI MS(IT), MPhil (CS), MBA(HRM), Ph.D

D/o V. Paranibaskaran Ex-Army,
Veera Sukee Illam,
S.O.R.Nagar,
Usilampatti.
Madurai.
Tamil Nadu. India.

Mobile: 7418490637
Email: sudhasini.cs@gmail.com

Google Scholar ID: <https://scholar.google.com/citations?user=HI3huhMAAAAJ&hl=en>
ORCID : <https://orcid.org/0000-0001-8151-772X>

OBJECTIVE

To work in challenging and dynamic environment and contribute to growth and success of the organization where I work and simultaneously keep adding values to myself

SNAPSHOT

- 2 years of experience in industry as software engineer, 15 years of experience in teaching field
- Highly motivated, self-learner and team player, Comfortable working within a process-driven, iterative, software engineering lifecycle
- Expert in analyzing user needs and developing software solutions; design software or customize software for client use with the aim of optimizing operational efficiency
- Dedicated, enthusiastic individual with outstanding academic, communication, organizational, and people skills and a passion for teaching
- Curiosity in Learning new Technologies, Adapting different Teaching methodology for student centered learning

EDUCATIONAL QUALIFICATIONS

PhD (Computer Science), (2025) Mother Teresa Women's University
Kodaikanal

MBA Human Resource Management, (2019), Annamalai University,
Chidhambaram - First Class

Qualified STATE LEVEL ELIGIBILITY TEST – Computer Science, (2016), Mother Teresa Women's University, Kodaikanal

MPhil Computer Science, (2015), Mother Teresa Women's University, Kodaikanal - First Class with distinction

Master of Studies in Information Technology, (2007), Lady Doak College, Madurai - First Class with distinction.

Bachelor of Science in Computer Science, (2005), Fatima College, Madurai - First Class.

WORK EXPERIENCE

JULY 2007 – FEB 2009

Company : Expert Outsource Pvt Ltd, Bangalore, Madurai (Branch).
Domain : Web Development
Designation : Software Engineer

APRIL 2009 – OCT 2009

Company : Medi UniTech Vision Technologies, Madurai.
Domain : Web Development, BPO Tools Creation
Designation : Software Engineer

NOV 2009 – TILL NOW

Institution : Lady Doak College Madurai. TamilNadu. India.
Designation : Assistant Professor

College-Level Committee Service

1. Automation Committee

Served for **Nine years** on the Automation Committee at the Center for Information

Technology, contributing significantly to the academic automation processes for the college.

- **Support in Automation Processes:** Handled errors in attendance checking, conducted software testing and developed new modules and websites, Trained new software programmers.
- **Student Engagement:** Assisted in conducting online quizzes for students.
- **Training Initiatives:** Organized exclusive training sessions for hostel students, including IIT Bombay's online spoken tutorial program.

2. **Industry (TCS) Collaborative Work Deputed by the College for 2 Years**

Worked with the TCS iON Implementation Team to automate all college activities. This project was managed in addition to regular college duties, involving both day and night shifts over **Two years**.

- **Communication and Collaboration:** Coordinated with TCS team members and experts to implement the project.
- **Data Management:** Collaborated on systematically organizing and inputting all college details.
- **Expert Contribution:** Served as an industrial expert, providing suggestions and feedback for the TCS iON project at Lady Doak College.
- **Team Coordination:** Worked exclusively with teams from TCS iON, the Center for Information Technology (CIT), and the Controller of Examinations.

3. **Part V: National Service Scheme (NSS):** Served as a member of the National Service Scheme (NSS) for approximately **Six years**.
4. **NAAC: Technical Team Member for Criteria V:** Served as a member of the Technical Team for Criteria V in the NAAC accreditation process.
5. **Physical Arrangement Convenor:** Served as the Physical Arrangement Convenor, overseeing the entire process for the NAAC Peer Team Visit and the Autonomy Review Committee. Responsibilities included meeting the needs for physical arrangements and other ad-hoc amenities to ensure the success of the events, managing various venues, and handling arrangements for college-level programs.
6. **Career Guidance and Placement Cell:** As a member of the Career Guidance and Placement Cell (CGPC) for more than **Seven years**, contributed to the recruitment process by facilitating communication with industry representatives and ensuring successful recruitment based on their requirements.
7. **Human Rights Unit:** Served as a member of the Human Rights Unit for over **Seven years**, handling the Human Rights subject, organizing student visits to the On-the-Spot Study (OSS), and conducting various programs.

8. **Research Culture Promotion Committee and Research Methods:** Served as a member of the Research and Development (R&D) Cell, promoting a research culture among faculty and students.
9. **Satellite Campus Development:** Served as a member involved in the development of the satellite campus.
10. **Centre for Human Resource Development:** Served as a member, conducting Faculty Development Programs (FDP) and various training sessions for faculty.
11. **Lady Doak Community College:** Served as a **member** of the Lady Doak Community College, contributing to the incorporation of courses for students. Additionally, worked as a **Computer Science Tutor** for community college students beyond regular working hours.
12. **Hostel Warden:** Served as Hostel Warden for **Ten years**, overseeing students' academic progress and hostel activities, while encouraging them to strive for excellence in their studies. Provided support for their overall well-being, including healthcare during emergencies, which presented unique challenges.
13. **Sports Committee Activities:** Contributed to the organization for promoting extracurricular activities I have given my support to the physical education department on conducting games for both faculty and students as a member of the Sports Committee. Additionally, played a role in the Media and Technical team for the Sports and Cultural Committee.
14. **ICM Committee:** Served as the faculty in charge, responsible for organizing competitions conducted by the ICM Committee.
15. **Service Learning / LiFE - Community outreach program:** Contributed as a member of the Service Learning / LiFE committee, focusing on enhancing the education of rural school students through computer science and technology. Organized various activities such as science exhibitions, tutoring sessions, and awareness programs for the adopted village Thondaimanpatti.

Department-Level Committee Service

1. **Student Achievement Report:** Contributed by compiling and presenting detailed accounts of student achievements as a member of the departmental documentation team, leveraging years of service.
2. **CGPC at Department Level for Recruitment and Training Process:** Played an active role in facilitating recruitment drives and training sessions as a member of the CGPC team, dedicating service.
3. **Students Training (Inside 60 Hours & Assessment Outside Class Hours):** Contributed to student skill development by organizing training programs and implementing effective assessment methods beyond regular class hours, and incorporating industry-demanded courses through discussions with industry representatives, ensuring students are well-prepared to meet the requirements of the industry, leveraging extensive experience.
4. **Department Library:** Enhanced academic resources by managing and expanding the departmental library as a dedicated member for years of service.
5. **LiFE:** Served as a facilitator for the department's LiFE program, actively contributing to providing students with valuable experiential learning opportunities over years of service.
6. **Department Satellite Campus Outreach Programme:** Facilitated the extension of departmental resources to satellite campuses, promoting collaboration and educational equity at the adopted village, leveraging years of service as a committed member and actively contributing to the outreach efforts.
7. **ICT Academy Training for Students:**
 - Contributed as a **Mentor**, successfully motivating and enabling students to attain certification in **Microsoft Azure AI Engineer Associate (AI-102)** through the **Honeywell Student Empowerment Program**. Additionally, secured sanctioned funds of **Rs. 5000**, which were contributed to the college.
 - Served as a **Tutor** in the Big Data Analytics program organized by the ICT Academy in collaboration with the CS department.
 - Contributed as a member to the organization and department of various ICT Academy training programs and international collaboration initiatives for the students and faculty of Lady Doak College.
8. **NAAC:** Served as Criteria II NAAC committee member
9. **Time Table Committee:** As the departmental timetable in-charge for approximately six years, skillfully managed schedules, optimizing resources and ensuring smooth coordination. Effectively navigated challenges, promoting better communication and long-term operational efficiency.

Subjects Handling	:	C, C++, VB, VC++, Java, ASP.NET, Modern Operating System, Web Designing, PHP, J2EE, Python, Android, Research Methodology, Network programming, Computer Architecture, Animation Software, Machine Learning
Area of Interest	:	Data Science, Bioinformatics, Data mining, Web mining, Web log study
Skill Set	:	ASP.Net, VB.Net, ADO.NET, SQL SERVER, JAVA, JavaScript AJAX, Web Service, PHP, Python, Android

WORK SHOP ATTENDED:

- J2EE workshop organized by Department of Computer Science, Lady Doak College, Madurai
- Workshop on being an Effective Teacher organized by Center for Human Resource Development, Lady Doak college, Madurai
- Conflict Resolution and Peace building workshop organized by inter faith & relations, LDC, Madurai
- Two-day workshop for resident hall supervisors organized by LDC, Madurai
- Research Trends in datamining using WEKA workshop organized by department of Computer science, LDC, Madurai
- Workshop on Research Methodology, Mother Teresa Women's University, Kodaikanal
- Webinar on Recent Trends in Computer Science, St. Joseph College, Trichy
- National Workshop on Big Data Analytics Through Cloud Computing, Loyola College, Chennai.
- National Seminar on Data Science, Arul Ananthar College, Madurai

TRAINING PROGRAM

- PHP with MYSQL Lxicon ISO 9001:2008 Certified Training Academy, Madurai.
- Two-Day Master Trainer program on “Data Structures using C” conducted by ICT Academy of Tamilnadu.
- Two-Day Master Trainer program on “Database Management System” conducted by ICT Academy of Tamilnadu.
- Four Days Master Trainer program on “Certificate in Java Programming” conducted by ICT Academy of Tamilnadu.

- Faculty training on teaching human rights, UGC sponsored organized by LDC
- Python3.4.3 Training, Sri GVG Visalatkshi college for women, funded by IIT Bombay, MHRD, India
- Sequence alignment and mutation analysis, BIRAC, Bionest lab, VIT-TBI, Vellore

ONLINE EXAM CERTIFICATION

- Completed “Social Networks” online certification course with “Elite Tag” organized by **NPTEL IIT Madras**.
- Basics of Machine Learning – Online 3 hours workshop, CREATES, IISER Bhopal with support from **NPTEL, IIT Madras**
- Digital Teaching Techniques, organized by **ICT Academy**
- Introduction to Genomic Technologies (Course Era), Noncredit course, Grade-89% from **Johns Hopkins university, Mary Land, United States**

CERTIFICATE OF APPRECIATION

Received certificate of appreciation as a Mentor on successfully motivated and enabled students to get certified in Microsoft Azure AI Engineer Associate (AI-102) under a CSR initiative sponsored by Honeywell Student Empowerment Program held from 05 January 2022 to 17 February 2022.

RESEARCH INTERNSHIP TRAINING PROGRAM

Got Exposure in Summer Faculty Internship Training program (14th May, 2019 to 20th June 2019) under the guidance of Dr. S. R. Sudarshan Iyengar at **Indian Institute of Technology Ropar, Rupnagar, Punjab**.

PAPER PRESENTATION / PARTICIPATION IN NATIONAL CONFERENCE / SEMINAR

- Participated ICT- A Catalyst for transforming teaching, learning & research in commerce, computer science and management education. LDC
- Participated Seventh National Seminar on Research Issues in Digital image Processing organized by Mepco Schlenk Engineering College
- Participated in “International Conference on New Frontiers in Mathematics and Computing – ICNFM C’19”, Department of Mathematics and Computer Science, Lady Doak College, Madurai.
- Participated in “The Next Age Teaching Technology – More Human than Ever”, Department of Computer Science, Lady Doak College, Madurai

- Participated in “National Workshop on Big Data Analytics Through Cloud Computing”, Department of Computer Science, Loyola College, Madurai
- Presented the paper titled with “A Systematic study on User Access Pattern for Weblog” in national level seminar organized by SRNM college, sattur
- Participated in National Seminar on Data Science organized by Department of Computer, Arul Ananthar College, Madurai

PAPER PRESENTATION / PARTICIPATION IN INTERNATIONAL CONFERENCE

- Participated in International conference on Research Orientation and Quality Publications organized by Department of computer science, Mother Teresa Women’s University, Kodaikanal, Tamilnadu, India
- Participated in International Conference on New Frontiers in Mathematics and Computing – ICNFM C’19 organised by Lady Doak College, Madurai
- Presented the paper titled with “An approach towards analysis of frequent item sets for web log user access pattern with Apriori Algorithm” at second international conference of computational intelligence organized by Sethu Institute of Technology, Madurai, Tamilnadu, India
- Participated in International Conference on Machine Learning, organized by Department of Computer Science, Mother Teresa Women’s University, Kodaikanal, Tamilnadu, India
- Presented paper titled with “Pairwise Sequence Alignment Similarity Score Prediction on Mushroom Biological data” in the International Conference on Digital Technologies at American college, Madurai, Tamilnadu, India
- Presented paper titled with “Clustering Mushroom 5.8s rRNA Sequences using k-means algorithm with predicted k value” in the 5th IEEE - International Conference on Intelligent Computing and Control Systems [ICICCS 2021], Vaigai College of Engineering, Madurai, Tamilnadu, India
- Presented paper titled with “A Comprehensive review of data science and its application” in the 8th International conference on computing, communication and security [ICCCS 2023], Baba Farid College of Engineering and Technology, Punjab, India
- Presented paper titled with “Overview of bioinformatics tools and implementation of clustal omega” in the IARI – 23, international conference, SFE (society for education), Madurai, Tamilnadu, India

PUBLICATIONS IN INTERNATIONAL JOURNAL

- The paper titled with “An approach towards analysis of frequent item sets for web log user access pattern with Apriori Algorithm” Published in International Journal of Applied Engineering Research, Vol. 10 No.43 (2015), ISSN 0973-4562, © Research India Publications; <http://www.ripublication.com/ijaer.htm> (ANNA UNIVERSITY ANNEXURE II 2015)
- The paper entitled ‘Towards Data science – Sentiment analysis on Biomedical journal’ published in Journal of Emerging Technologies and Innovative Research, ISSN 2349-5162, 2019, Impact Factor 8.5, **UGC APPROVED** – International Peer – Reviewed Journal
- The paper titled “Pairwise Sequence Alignment Similarity Score Prediction on Mushroom Biological data” Published in International Journal of Advanced Science and Technology, ISSN:2005-4238, E-ISSN:2207-6360, 2019 (**SCOPUS INDEXED**)
- The Conference Proceedings of the Fifth International Conference on Intelligent Computing and Control Systems (ICICCS 2021) paper titled “Clustering Mushroom 5.8s rRNA Sequences using k-means algorithm with predicted k value” published in IEEE XPLORE, DVD Part Number: CFP21K74-DVD; ISBN: 978-0-7381-1326-5 2021, 2021, DOI:10.1109/ICICCS51141.2021.9432167 (**SCOPUS INDEXED**)
- The paper titled “Cluster Predictive Model Using Affinity Propagation Algorithm to Group Mushroom 5.8s rRNA Sequences”, published in Indian Journal of Science And Technology, Volume 15(41): 2129-2142, 2022, [doi.org/ 10.17485/IJST/v15i41.1341](https://doi.org/10.17485/IJST/v15i41.1341) (**WEB OF SCIENCE**)
- The paper titled “Overview of Bioinformatics Tools and Implementation of Clustal omega Tool”, published in International Journal of Engineering Research in Computer Science and Engineering, ISSN (Online) 2394-2320, Vol 10, Issue 8, 2023, (**PEER REVIEWED JOURNAL**)

PUBLICATIONS IN INTERNATIONAL BOOK CHAPTERS

The Book chapter entitled “Grouping of Mushroom 5.8s rRNA Sequences by Implementing Hierarchical Clustering Algorithm” is included in the Book entitled Applications of Machine Learning and Deep Learning on Biological Data, Book series Name: Advances in Computational Collective Intelligence, published in Auerbach Publications, Routledge **Taylor & Francis** and CRC Press. ISBN 9781032214375, 2023 (**SCOPUS INDEXED**)

PATENT FILED & PUBLISHED IN (INDIAN) OFFICIAL JOURNAL OF THE PATENT OFFICE

Application No.	Name of the Inventors	Date of filing of Application	Publication Date	International classification
202241052640 A	Corresponding Author 1)P. Sudhasini Research Scholar, Department Of Computer Science, Mother Teresa Women's University, Kodaikanal), Assistant Professor, Lady Doak College, Madurai.	15/09/2022	The Patent Office Journal No. 38/2022 Date: 23/09/2022	G06K0009620000, G16B0030000000, G16B0040000000, G06F0016350000, G16B0050000000
202241063000 A	Corresponding Author 1)P. Sudhasini Address Of Applicant :Research Scholar, Department Of Computer Science, Mother Teresa Women's University, Kodaikanal), Assistant Professor, Lady Doak College, Madurai	04/11/2022	The Patent Office Journal No. 46/2022 Date: 18/11/2022	G06Q0010100000, G06F0040300000, G06F0016930000, G06F0016380000, G06F0016350000

INVITED LECTURES / RESOURCE PERSON

S.No	Title of the Invited lecture	Organised By	International/ National/State/Regional
1	Introduction to Distributed System	Department of Computer Science - PG & Research, Pioneer College of Arts and Science - Coimbatore - Webinar	Regional - Coimbatore 6/06/2021

2	Web Technology	PG and Research Department of Computer Science, M.V. Muthiah Government Arts College for women, Dindigul - Guest Lecture	Regional - Dinidigul 19/03/2022
---	----------------	--	------------------------------------

PROJECTS HANDLED IN INDUSTRY

EXPERT OUTSOURCE PVT LTD

Project Name: Language Network

The-Language-Network is a result oriented and dedicated language solution Project, with an exclusive idea of providing Translation and Interpretation Services which can handle any volume of work. The-Language-Network acts as an Intermediate between the Requestors and the Members (who are seeking for a job as an Interpreter or Translator). Admin can Match the Members who satisfied the Requests of the Requestors, if the Requests is for an Interpreter can make them to work in the Clients place or else Translator can Translate the Books (in any format) in a Requested Language and Return to the client.

Modules Covered: Admin Section, Members Login, Paypal integration for payment Module.

Platform
Front End : Asp.net, AJAX.
Back End : SQL Server 2005

Project Name: Knowledgebase

A knowledgebase is a special kind of database for knowledge management. It provides the means for the computerized collection, organization, and retrieval of knowledge.

Modules Covered:

User Maintenance, Functionality of Articles and Report generation.

Platform
Front End : VB.NET (office use), ASP.net (online)
Back End : SQL Server 2005

Project Name: AR

Account Receivable Program for a Huge Pharmaceutical company. Maintenance of

Doctor, Patient and Drug details, Cash-Receipt dealing with patients, Stock Maintenance Automated Reports.

Modules Covered: Admin Section, Members Login, Paypal integration for payment Module.

Platform **Front End** : Asp.net, AJAX.
 Back End : SQL Server 2000

Project Name: **ECM**

Express Case Management System is mainly concentrated on employee benefits. Maintaining the details of cases, filed by the employees about their injury or Health Problem while working and to claim amount or Drugs from the company.

Modules Covered: The whole application is enabled with the AJAX, so that complicated calculation and validations can be done in fractions of second. Administration Section containing Email setting (providing header, footer and attachment for the email in a group or single category), Maintains of Patient, doctor details, follow-up Mail Section, Inventory Details.

Platform **Front End** : Asp.net, AJAX.
 Back End : SQL Server 2005

MEDI UNITECH VISION TECHNOLOGIES

Project Name: **School Management**

School Management project is an online web-based process to manage official task like student management, staff management, Timetable allotment for a class and Staffs, Attendance maintenance for Students and Staffs, Mark statement, Automated Messages to Parents Cell, regarding any issues or Announcement from the school, hostel arrangements for students, General services, vehicle maintenance, Report Generation.

Platform **Front End** : Asp.net, AJAX.
 Back End : SQL Server 2005

Project Name: **Hospital Management**

It is an internal application that is run locally to manage Doctors Details, Inpatient, Outpatient Details, Front office Maintenance, Details of Patients with concern doctors

PERSONAL DETAILS

Father's Name : V.Paranibaskaran
Date of Birth : 20-11-1984
Sex : Female
Marital Status : Single
Nationality : Indian
Language Known : English & Tamil
Permanent Address : Veera Sukee Illam
S.O.R.Nagar
Usilampatti
Madurai (DT) 625532
TamilNadu
India
Hobbies : Listening to music, Playing Basket Ball

I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Madurai.

P. SUDHASINI