
Research Interests: Data Analytics, Machine Learning, UX Design, Blockchain

Education

- **ME (IT), University of Mumbai, Mumbai, India**
 - June 2012 - February 2015 (GPA : **3.65** / 4.0)
- **B.Tech(IT), Cochin University of Science and Technology, Kerala, India**
 - October 2001 - May 2005 (GPA : **3.43** / 4.0)

Research & Development Experience

- **Center for Formal Design and Verification of Software, IIT Bombay**
 - Research Assistant (Jun' 07-Jun' 08)
 - To check the correctness of software used in launching the Akash missile developed by the Defence Research and Development Organisation (DRDO).

Teaching Experience

- **VES Institute of Technology, Mumbai**
 - Assistant Professor (Jul'08-present)
 - To deliver lectures on current trends like Blockchain, Artificial Intelligence, Big Data Analytics, and fundamental courses such as Data Structures, Analysis of Algorithms, Discrete Mathematics, System Programming, and Compiler Construction for Computer Engineering students.
 - To mentor Computer Engineering students to solve real-life problems through Minor and Major Projects.
- **K J Somaiya Institute of Technology, Mumbai** (Mar'07-May'07)
 - Lecturer: To deliver the concepts and to conduct lab sessions of C Programming for Second Year Information Technology students
- **KMEA Engineering College, Kerala** (Jan'06-Oct'06)
 - Lecturer: To deliver fundamental courses such as Theory of Computer Science, Data Structures and Algorithms; and to conduct practicals in C language.

Publications:

([Complete List in Google Scholar](#))

1. Lifna C.S., Vijayalakshmi M. (2020) "Location-Based Alert System Using Twitter Analytics." In: Raju K., Govardhan A., Rani B., Sridevi R., Murty M. (eds) Proceedings of the Third International Conference on Computational Intelligence and Informatics. Advances in Intelligent Systems and Computing, vol 1090. Springer, Singapore. https://doi.org/10.1007/978-981-15-1480-7_28
2. Lifna C S, Mohan Pawar, " Intelligent Scholarship Disbursement Module for National Scholarship Portal (NSP)", 2nd National Conference BVIMIT, Navi Mumbai 29th & 30th June 2017, UGC Approved Journal
3. S. Rajesh and Lifna C.S, "UI design for Language Translator Module in Swasthya slate (m-Health tool)," 2015 International Conference on Advances in Computing, Communications and Informatics (ICACCI), 2015, pp. 1340-1344,

4. Lifna. C.S, Dr. Vijayalakshmi .M, "Identifying Concept-Drift in Twitter Streams", Elsevier Procedia Computer Science Volume 45, 2015, Pages 86–94, [doi:10.1016/j.procs.2015.03.093](https://doi.org/10.1016/j.procs.2015.03.093), ICACTA 2015 held 26th - 27th March 2015 organized at D J Sanghvi College of Engineering, Vile Parle, Mumbai.
5. Priya R. L., Lifna C. S., D. Jagli and A. Joy, "Rational Unified Treatment for Web application Vulnerability Assessment," 2014 International Conference on Circuits, Systems, Communication and Information Technology Applications (CSCITA), 2014, pp. 336-340, [doi: 10.1109/CSCITA.2014.6839283](https://doi.org/10.1109/CSCITA.2014.6839283).
6. Lifna C.S, Dr. Vijayalakshmi .M, "Soft Grid – Big Data Analytics for Smart Grid", VESIT International Technological Conference – 2014 (I-TechCON 2014), January (03 - 04) 2014.

Grants Received

- **Minor Research Project Grant, University of Mumbai**
- Location-based Alert System using Twitter Analytics (Aug'16-Jul'17)
 - Co-PI: Dr. M Vijayalakshmi
 - Designed a Location-Based Alert System to aid Government bodies in taking corrective action against violations of Human Rights by plotting the locations extracted from tweets on Indian Map.
- Coreveillance - Let's Make Our Society a Safe Place to Live In (Sep'19-Jul'21)
 - Designed a surveillance platform equipped with situation intelligence to aid government and non-government working departments in taking corrective action against unfavorable intruders and destructive mishaps.

Academic Projects & Seminar

- **Mining Concept-Drift in Big Data Streams**, ME(IT, Project) (Jan'14-Feb'15)
 - Mentor: Dr. M Vijayalakshmi
 - Objective: To address the hidden context challenge within social media posts, thereby establishing the presence of concept drift in Twitter Data Streams and to investigate the temporal relationships between tweets (Coding : Python, Java, Google Cloud)
- **Soft Grid - Big Data Analytics for Smart Grids**, ME(IT, Seminar) (Jul'13-Dec'13)
 - Mentor: Dr. M Vijayalakshmi
 - Objective: a survey on the future Smart Grid - Soft Grid; and how Big Data Analytics addresses the Indian Power crisis.
- **Download Manager**, B.Tech(IT, Project in Semester 8) (Jan'05-Apr'05)
 - Mentor: Mr. Santhosh Scaria & Mrs. Sunitha C S (CDAC, Kochi)
 - Technology Stack: C#.net
 - Objective: To develop a Download Manager for Windows based on the concept of BitTorrent.
- **Internet Protocol v6 (IPv6)**, B.Tech(IT, Seminar in Semester 7) (Jul'04-Nov'04)
 - Mentor: Ms. Gincy Abraham
 - Objective: To discuss the relevance of IPv6 to allocate IP address to the IoT devices, their design goals, Header Format, Addressing concerns, Security issues, Routing, Implementation details etc.

- **Ship & Trade**, B.Tech(IT, Project in Semester 7) (Jul'04-Nov'04)
 - Mentor: Ms. Shafeena A M
 - Technology Stack: HTML, Java Server Pages, JavaScript, Microsoft Access
 - Objective: To develop a website for Seven Seas Corporation, Kochi, which helped them to provide online booking services, to publish news and upcoming events, etc...
- **Cardio-vascular System**, B.Tech(IT, Project in Semester 6) (Jan' 04-May' 04)
 - Mentor: Mrs. Deepa Jose
 - Technology Stack: JDK 1.4
 - Objective: To develop a Computer Based Training tool to teach high school students the functioning of the cardio-vascular system in an interactive way.
- **Hospital Automation**, B.Tech(IT, Project in Semester 5) (Jul'03-Nov'03)
 - Mentor: Mr. Vijayanand K S
 - Technology Stack: Visual Basic 6.0 & Oracle 8.0
 - Objective: To computerize the day-to-day activities such as Enquiry, Registration Desk, Laboratory, Pharmacy, Billing, Administration, Reports and Helpdesk at Government Hospital, Thiruvalla, Kerala, India.

Professional Activities

- **All India Council for Technical Education**
 - Blockchain Workshop Co-coordinator (Mar'21-Aug'21)
 - To draft a proposal to the All India Council for Technical Education (AICTE).
 - To make arrangements to conduct the AICTE Sponsored Online Short Term Training Program (STTP) series on "Blockchain & Its Applications" in four phases.
 - To prepare the proceedings to be submitted to the All India Council for Technical Education (AICTE) after the successful conduction of the Online Short Term Training Program (STTP) series.
- **LearningIndia.ai - Nationwide AI Skilling & Research Initiative**
 - VESIT LeadingIndia AI Team Member (Jul'18-Jun'21)
 - To promote AI and Deep Learning Skills among Students and Faculties and to get them ready for the future.
 - Organizing Member vesAIthon - 24-Hour Nationwide Hackathon on 28th and 29th June 2019.
 - Technical Documentation of the events organized at VESIT.
- **University of Mumbai**
 - Member of Syllabus Setting Committee (Academic Year 2022-23)
 - Machine Learning & Blockchain (Sem VII)
 - Machine Learning & Blockchain Laboratory (Sem VII)
 - Design a Blockchain Application Architecture (Sem VII)
 - NFT & DeFi (Decentralized Finance) (Sem VIII)
 - Member of Syllabus Setting Committee (Academic Year 2018-19)
 - Advanced Algorithms (Sem V)
 - System Programming and Compiler Construction (Sem VI)

- **VES Institute of Technology, Mumbai**
- VESIT-IIC Member (Innovation Ambassador) (Nov'18-present)
 - To arrange Workshops / Seminars/interactions with Entrepreneurs, Investors, and Professionals and create a mentor pool for student innovators.
 - To conduct various innovation and entrepreneurship-related activities prescribed by the Ministry of Education Innovation Cell.
- CSI-VESIT Faculty In-charge (Jul'21-present)
 - To conduct Technical Interviews for electing the Core CSI-VESIT Council Members.
 - To maintain the repository of all the activities conducted through CSI-VESIT.
- Department Scholarship In-charge (Jul'15-Jun'21)
 - Verify the documents of students who are applying for various Private Organisations and to maintain a repository of all the students who applied for Scholarship
 - Help the Scholarship Coordinator to scrutinize the eligible candidates for the internal and external Scholarships.

Certifications & Test Scores

- WES Education: [Verified International Academic Qualifications](#)
- Valid GATE Scores: [386 \(GATE 2018\)](#), [412 \(GATE 2016\)](#), [440 \(GATE 2010\)](#)
- Microsoft Badge: [Introduction to Programming Using Python - Certified 2018](#)
- NPTEL Certifications: [Social Networks \(IIT Ropar, Oct'18\)](#),
[Advanced Graph Theory \(IIT Madras, Apr'18\)](#)

References

M Vijayalakshmi	Professor, AI & DS Department VES Institute of Technology, Mumbai	m.vijayalakshmi@ves.ac.ir
Dhanamma Jagli	Assistant Professor, MCA Department VES Institute of Technology, Mumbai	ghanamma.jagli@ves.ac.in
Rajkumar T	Assistant Professor, CSE Department College of Engineering Kallooppa, Kerala	rajkumar@cek.ac.in