




# R L JALAPPA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, & Approved by AICTE)

Doddaballapura -561203, Bangalore Rural District

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<b>Faculty Name</b>	<b>Dr.P.VIJAYAKARTHIK</b>	
<b>Designation</b>	Principal and Professor	
<b>Area of Interest</b>	IOT, Big Data Analytics, Cloud Computing, Wireless sensor Networks, Artificial Intelligence and Machine Learning	
<b>Email ID</b>	principal@rljit.in vijayakarthish@rljit.in	
<b>Research Identity</b>	VTU RESEARCH SUPERVISOR ID : VTU0817507 ORCID ID : <a href="https://orcid.org/0000-0003-3127-9705">https://orcid.org/0000-0003-3127-9705</a> RESEARCHER ID : rid21267 VIDWAN ID : <a href="https://vidwan.inflibnet.ac.in/profile/222790">https://vidwan.inflibnet.ac.in/profile/222790</a> GOOGLE SCHOLAR ID : <a href="https://scholar.google.com/citations?hl=en&amp;user=Wqb25DwAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=Wqb25DwAAAAJ</a>  MICRSOFT ACADEMIC SEARCH ID : <a href="https://academic.microsoft.com/profile/88e153e5-j816-4524-ej07-i024g01ih4e4">https://academic.microsoft.com/profile/88e153e5-j816-4524-ej07-i024g01ih4e4</a>  SCOPUS ID : <a href="https://www.scopus.com/authid/detail.uri?authorId=57203142988">https://www.scopus.com/authid/detail.uri?authorId=57203142988</a>	

### EDUCATION:

DEGREE	SPECIALIZATION	YEAR OF PASSING	University
Ph.D.,	Information Technology.	March-2014	Kalasalingam University, Tamilnadu
M.E	Computer Science and Engineering.	2005	Anna University, Chennai Tamilnadu
B.E	Information Technology.	2002	Madurai Kamarajar University, Madurai, Tamilnadu

TECHNICAL SKILLS: Python and Java

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**PROFESSIONAL WORK EXPERIENCE:20 years**

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- **FDP/WORKSHOP**

**ATTENDED:**Oneweekwebinarserieson“Emotionalwellbeing,worklife BalanceandInnovationneededfor21<sup>st</sup>Century”during05-06-2020to 12-06-2020

- Oneweekwebinarserieson“LatestTrendsInITduring12-05-2020To21-05-2020
- Participatedin3daysFDP on“JavastringsApplet”during 29.5.2020
- ParticipatedinGoogleCloudArchitectFDPconductedatGoogle,Bangalore
- ParticipatedinwebinarseriesSoftwareTestingwithPythonAutomationduring16-05-2020
- Participated2daysFDPon“MicrosoftApplicationDevelopmenton5-9-2019
- ParticipatedoneweekFDPon“OutcomeBasedEducation“during21-06-2019
- Participatedonedayworkshopon “ANATOMY OFCLOUDCOMPUTING”heldinKalasalingamUniversity, Srivilliputhur, India.
- Participated2daysworkshopon“ANDROIDPROGRAMMING”organizedbyDept.of InformationTechnology, KalasalingamUniversity,India.

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**UNIVERSITY RESPONSIBILITIES:**

- Chief Superintendent.
- Evaluation of VTU Theory Examination.
- Evaluation of VTU Laboratory Examination as Internal and External Examiner

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**OTHER RESPONSIBILITIES:**

- Working as Principal at R.L. Jalappa institute of Technology, Bengaluru
- Worked as ProfessorandHeadinDepartmentofInformationScienceandEngineering,atSirM.VisvesvarayaInstituteofTechnology,Bangalore for the past 8 years.
- Head,ResearchCentre ofInformationscienceandEngineering,whichisapprovedbyVisvesvarayaTechnological University,Belagavi 2014 to 2022 .
- Admission officer
- Institute NAAC Co-ordinator

- Dept NBA Co-ordinator
- Chief Superintendent for VTU Exams from June–2017
- NAAC Co-ordinator for sir M Visvesvaraya Institute of Technology, Bangalore from 21.11.14 to till date.
- NBA Programme Co-ordinator for the Department from 2019 to till date.
- Project Member at Software Technology Group, TIFAC-CORE in Network Engineering project funded by Department of Science and Technology, Government of India
- Member–Board of Studies, Kalasalingam University, Tamilnadu.
- Doctoral Committee Member for Kalasalingam University from 2019 to till date
- Member in Board of studies and Coordinating and framing of syllabus for Undergraduate and Post Graduate Programmes.
- Assisting the Head of the Department in Complete administration of the Department during 2009 to 2014

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#### **PROFESSIONAL MEMBERSHIPS:**

Life-time member of Indian Society of Technical Education, New Delhi.

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#### **OTHER SIGNIFICANT ACHIEVEMENTS (if any):**

- Approved Research Supervisor under Visvesvaraya Technological University, Belgaum and guided 5 Research scholars and they have received the Ph.D Degree in the Research area of Cloud computing, Network Security, Wireless sensor Networks, Big data Analytics, Internet of Things (IOT).
- Received Industrial funded Project entitled “ Designing IOT based Tool Kit for Industrial Automation ” of Rs.2 Lakhs from Power Health Technologies, Bangalore in the year 2019 as Principal Investigator.

#### **PATENTS PUBLISHED:**

- **Published Patent on “ Intelligent Classification and routing of computer Text using AI Transfer Learning dated on 23-9-2022 with Docket Number 30888**
- **Published Patent on “IOT MODULE WITH AI BASED MATHEMATICAL MODEL FOR CURVE FITTING for sensory data Publication date 30/12/2022 Docket No. 120512**

#### **BOOKS PUBLISHED:**

- **Published book Chapter on “Metaheuristic-Based Kernel Extreme Learning Machine Model for Disease Diagnosis in Industrial Internet of Things Sensor Networks, book titled “Artificial Intelligence Techniques in IoT Sensor Networks” page number 83 to 89**
- Honored as Doctoral committee member for Pondicherry Central University, Anna University, Chennai, Visvesvaraya Technological University, Belgaum, Sathyabama University, Chennai, Bharathiyar Uni

iversityCoimbatore, Kalasalingam University, Tamilnadu.

- Invited as Resource Person for delivering Guest Lecture on the Topic: “IOT Research Issues and challenges at St.Joesph College of Engineering at Chenani” on 24-July-2019
- Reviewer Recognition for International Journal of Engineering Research and Technology.
- Honored as Member in Academic Advisory committee in Dr.T.Thimmaiah Institute of Technology, Kolar Gold Fields since 2019.
- We have set up Internal Quality Assurance Cell (IQAC) in our Institution during 2015 and looking after the Quality aspects of the whole Institution by conduction of Academic Audit.
- NBA Resource Person and guiding many Institution for NBA and NAAC on Volunteer basis.
- Dept AICTE in charge and Visvesvaraya Technological University LIC in charge.
- Implemented new Innovative Teaching Methods in the Dept and Institution as well.

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## **List of Publications**

### **International Journals**

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1. Dr.P.Vijayakarthish et al “ Experimental Analysis of Human Behavior Monitoring System using Gaze Shift Principles and Bayesian Image Foraging Logic” Proceedings of the IEEE Third International Conference on Electronics and Sustainable Communication Systems (ICESC 2022) **Published in IEEE Explorer in 2022 (Scopus Indexed).**
2. Dr.P.Vijayakarthish et al ” An Effective Gas and Oil Leakage Detection System over Industrial Environment using Internet of Things Assistance “Proceedings of the IEEE Third International Conference on Electronics and Sustainable Communication Systems (ICESC 2022) DVD Part Number: CFP22V66-DVD; ISBN: 978-1-6654-7970-7 DVD Part Number: CFP22V66-DVD; ISBN: 978-1-6654-7970-7 **Published in IEEE Explorer in 2022 (Scopus Indexed).**
3. Dr.P.Vijayakarthish et al, ” An Intelligent Failure Free Data Communication Model using Predicted Remaining Deliveries Scheme Proceedings of the Fifth International Conference on Inventive Computation Technologies (ICICT 2022) IEEE Xplore Part Number: CFP22F70-ART; ISBN:978-1-6654-0837-0 **Published in IEEE Explorer in 2022 (Scopus Indexed).**

4. Dr.P.Vijayakarthishik et al, ” An IoT Assisted Secured Healthcare Management Scheme based on RFID and Crypto Security Enhancement Model “ Proceedings of 2022 International Conference on Inventive Computation Technologies (ICICT)**Published in IEEE Explorer in 2022 (Scopus Indexed).**
5. Dr.P.Vijayakarthishik et al, “ Artificial Intelligence Assisted Student Learning and Performance Analysis using Instructor Evaluation Model “ Proceedings of the Third International Conference on Electronics and Sustainable Communication Systems (ICESC 2022) IEEE Xplore Part Number: CFP22V66-ART; ISBN: 978-1-6654-7971-4)**Published in IEEE Explorer in 2022 (Scopus Indexed).**
6. Dr.P.Vijayakarthishik et al, ” Enhancing the performance of low power wide area network using narrowbandInternetofThings”*TurkishJournalofPhysiotherapyandRehabilitation*VolumeNumber32Issue-3,ISSN2651-4451 |e-ISSN2651-446X, Year2022,Page number38124to 38130(**ScopusIndexedJournal**)
7. Dr.P.Vijayakarthishik et al, ” Smart robot for Medical Waste Management ” *Turkish Journal ofPhysiotherapyandRehabilitation*“Volumenumber -32,IssueNumber -3,ISSN2651-4451|e-ISSN2651-446X,Year2022, Page number 38124to 38130(**Scopus Indexed Journal**)
8. Dr.P.Vijayakarthishik et al, “Tractor Hiring System Using Blockchain Technology“*International Journal of Innovative Research in Computer and Communication Engineering* | e-ISSN: 2320-9801, p-ISSN: 2320-9798 ,Impact Factor: 8.165 , Published during June-2022
9. Dr.P.Vijayakarthishiket al ,TribridSecureEncryptionTechnique toProtectthedataintheCloud*Journal of Design Engineering*, ISSN 0011-9342, **Year 2021** , Issue 8, Pages 7423-7433(**ScopusIndexed Journal**)
10. Dr.P.Vijayakarthishik et al, “Fine grained access control using H-KCABE in cloud storage “*MaterialsToday:Proceedings*,<https://doi.org/10.1016/j.matpr.2020.08.542>,(ElsevierPublications,Publishedin October-2020
11. Dr.P.Vijayakarthishik et al, “Decoy Techniques for Preserving the Privacy in Fog Computing “*Lecture Notes on Data Engineering and communications Technologies* “ Volume Number53,Page Number 89 to 94,[https://doi.org/10.1007/978-981-15-5258-8\\_10](https://doi.org/10.1007/978-981-15-5258-8_10), e-ISSN 978-981-15-5258-8,(**SpringerPublications ,Singapore, Published in August-2020**)
12. Dr.P.Vijayakarthishik et al, “Enhancing Data Security in Cloud Computing Using ThresholdCryptographyTechnique“*LectureNotesinElectricalEngineering*“VolumeNumber643,PageNumber231to242,[https://doi.org/10.1007/978-981-15-3125-5\\_25](https://doi.org/10.1007/978-981-15-3125-5_25),e-ISSN1876-1119,(**SpringerPublications , Singapore, Published in April-2020**).
13. Dr.P.Vijayakarthishik et al, “ Intelligent Cloud Service Organization and Resource Provisioning inVirtual agent system” *Journal of Critical Reviews* “ Volume Number 7, Issue Number 13, YearJuly-2020, Page Number 1119-1123, ISSN Number 2394-5125 (**ScopusIndexedJournal**),**PublishedinJuly-2020**)

14. Dr.P.Vijayakarthisetal,“CloudComputingPerformanceAnalysisStrategytoEnhancetheQoSfor Imminent IT Sector” Jour of Adv Research in Dynamical & Control Systems, Vol. 12, No.7, 2020, Page 372-378, ISSN : 1943-023X,DOI: 10.5373/JARDCS/V12I7/20202018, **(ScopusIndexedJournal), Published inJune-2020)**
15. **Dr.P.Vijayakarthis,etal,AnEfficientBigDataAnalyticsbasedCloudSystemforOptimizing Web Page Discovery TechniquesInternational Journal of Advanced Science and TechnologyVol. 29, No. 9s, (2020), pp. 3102-3107 ISSN: 2005-4238 IJAST, (ScopusIndexedJournal),PublishedinMay-2020**
16. **Dr.P.Vijayakarthis,etal,EnergyEfficientResourceAllocationUsingHybridGeneticAlgorithm in Cloud,Journal of Green Engineering (JGE) Volume-10, Issue-3, 2020 (ScopusIndexedJournal), Published inMay2020**
17. **Dr.P.Vijayakarthis et al , A Brilliant Agent Scheme for Consulting Diverse Online CloudVendor to Detect Momentous Services, Journal of Test Engineering and Management,ISSN:0193-4120 Page No. 9554 – 9560, Volume Number 9554-9560 (Scopus Indexed Journal),PublishedinApril,2020**
18. **Dr.P.Vijayakarthisetal,“FaceDetectionandCalculatingitsdistancefromthecamera”International Research Journal of Modernization in Engineering Technology and ScienceVolume:02/Issue:06/June-2020,ISSN: 2582-5208, PageNumber: 25-30**
19. **Dr.P.Vijayakarthisetal,“AnEfficientBigDataAnalyticsbasedCloudSystemforOptimizingWeb Page Discovery TechniquesInternational Journal of Advanced Science and TechnologyVol. 29, No. 9s, (2020), pp. 3102-3107 ISSN: 2005-4238 IJAST, (ScopusIndexedJournal),PublishedinMay-2020**
20. **Dr.P.Vijayakarthis,et al, BrainTumourSegmentationusingConvolutional NeuralNetworks in MRI images, Journal of Medical Systems by Springer Publications,June-2019, Volume No.43, Issue Number 9,DOI: 10.1007/s10916-019-1416-0,ISSN-0418-5598,(Scopus IndexedJournal published in 2019)**
21. **Dr.P.Vijayakarthis,etal,EnergyEfficientMobileSinkbasedRoutingModelforMaximizing Lifetime of Wireless Sensor Networks, May-2019, Global Journal of ComputerScienceandTechnology, Volume19, IssueNumber-2, ISSN-0975-4172,Publishedin2019**
22. **Dr.P.Vijayakarthis, et al, An Expert Agent based Cloud Service Discovery Using EllipticCurve Cryptography Authentication, Journalof Adv Research in Dynamical & ControlSystems, March-2019, Vol. 11,01-SpecialIssue,2019, ISSN 1943-023X.**
23. **P.VijayaKarthick,E.Gajendran,Y.M.Vijayakumara,M.K.Suguna“LegacyApplicationWorkload Prediction Scheme by Sequentially segmented pattern (SSP) in Cloud ComputingInfrastructure” International Research Journal of Engineering and Technology, Issue Number4,volumeNumber 6, September2015,Impact factor0.412**

24. **P.Vijayakarthishick**, V.Vasudevan“Dynamic Souple Wireless Grid applications for horde of jobs by sensible centrality scheduling with redite” International Journal of computer science,issueNo9,volumeNo5,pageno660-670,2013ISSN1549-3636,2013,Impactfactor=1.35,(**ScopusIndexed and SCI Journalpublishedin 2013**)
25. **P.Vijayakarthishick**, V.Vasudevan“Handling dependable and independable tasks delegationusingERSschedulinginwirelessgridenvironment”EuropeanJournalofscientific research,issueno4volumeno101,pageno577-583,ISSN1450-216,2013,ImpactFactor=0.736,(ScopusIndexedandSCIJournalpublishedin2013)
26. **P.Vijayakarthishick**,V.Vasudevan“SchedulingofDynamicTasksinWirelessGridComputingusing Optimized Final Sternness Priority Rule (OFSPR) Algorithm” International Journal ofAdvancesinEngineering&Technology,ISSN2231-1963,IssueNo3,VolumeNo6,pp.1194-1198,2013,ImpactFactor=0.86,(**ScopusIndexedandSCIJournalpublishedin2013**)
27. **P.Vijayakarthishick**, V.Vasudevan“The Novelty of Job Rescheduling Algorithm for WirelessGrid Environment” Research Journal of Computer Systems Engineering – RJCSE, ISSN:2230-8563;Vol 04;SpecialIssue.
28. **P.Vijayakarthishick**, V.Vasudevan“Increasing the Efficiency of Grid Scheduling using JobChangeoverTimeSchemeinWirelessGridEnvironment”publishedinJournalofConvergenceinInformationTechnology,IssueNumber5,Vol03,PP1387-1394ISSN:1975-9320,Impact Factor=1.07
29. **P.Vijayakarthishick**, V.Vasudevan“ A study of Ontology based secured Network access byusingtheTridentSchemeinCloudComputing”publishedinInternationalJournalofEngineering Research and Technology, Issue Number 8,Vol 07, PP 543-550 ISSN: 0674-0684,ImpactFactor=0.433
30. **P.Vijayakarthishick**, Murugan B.S “A Survey of various Meta schedulers in Cloud Computingwith the Third party secured Authentication” Published in International Journal ComputerScienceand Engineering,Vol 02,IssueNo6, PP1187-1195ISSN:2347-2693

### InternationalConferences

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1. **P.Vijayakarthishick**,Suresh,etal.,“Improvingsschedulingofbackfillalgorithmsusingbalancedspiralmethodforcloudmetascheduler”ProceedingsofInternationalConferenceonInnovative Recent Trends in Information Technology (ICRTIT- 2011) **Indexed in IEEEExplorer** Page(s):624 - 627 Print ISBN: 978-1-4577-0588-5 INSPEC Accession Number:12145598
2. **P.Vijayakarthishick**, V.Vasudevan, etal“Reducing the make span time by using priorityscheduling algorithm in wireless grid environment” Proceedings of International conferenceonScience,EngineeringandTechnologyheldatVITon 17thand

18thNovember-2011.

3. **P.Vijayakarthishick**, V.Vasudevan,etal“Assessingfutureworkloadbasedondynamicpredic tionschemeincomputationalgrids”ProceedingsofInternationalConferenceonInnovative Trends inComputing andTechnologyICITCT’13.
4. **P.Vijayakarthishick**, V.Vasudevan, et al “Effective adaptive prediction scheme for workloads in wireless grid environment” Proceedings of International Conference on Innovative Trends in Computing and Technology ICITCT’13.
5. **P.Vijayakarthishick**, V.Vasudevan,etal “Humanbasedknowledgepresentation in e-learning” Proceedings of International Conference on Innovative Trends in Computing and Technology ICITCT’13.
6. **P.Vijayakarthishick**,Suresh,etal,“Improving scheduling of backfill algorithms using balanced spiral method for cloud metascheduler”Proceedings of International Conference on Innovative Recent Trends in Information Technology(ICRTIT-2011)Page(s):624-627PrintISBN:978-1-4577-0588-5 INSPEC Accession Number:12145598.
7. **P.Vijayakarthishick**, V.Vasudevan, et al., “Performance evaluation of workload measurement using WLP scheme in wireless Grid environment” proceedings of International conference of computing and communication technology (ICCCT’13) held on 1st and 2nd march 2013. page 25 to 27.
8. **P.Vijayakarthishick**, V.Vasudevan,etal“Assessingfutureworkloadbasedondynamicpredic tionschemeincomputationalgrids”ProceedingsofInternationalConferenceonInnovative Trends inComputing andTechnology ICITCT’13.
9. **P.Vijayakarthishick**, V.Vasudevan,etal,“Decentralized checkpointed data recovery in Wireless Grid computing” proceedings of International conference on Advances in communication and computing (ICACC-2012) with collaboration of Asian Institute of Technology Bangkok, Thailand held on 9th and 10th January-2012.
10. **P.Vijayakarthishick**, V.Vasudevan, etal“Reducing the make span time by using priority scheduling algorithm in wireless grid environment” Proceedings of International conference on Science, Engineering and Technology held at VIT on 17th and 18th November-2011.
11. **P.Vijayakarthishick**, V.Vasudevan et al “A Novelty approach of incessive algorithm in e-Learning” Proceedings of International Conference on Computational Intelligence and Information Technology (CCIIT-2013) held at Coimbatore during May 6<sup>th</sup>, 2013

### National Conferences

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1. **P.Vijayakarthishick**, V.Vasudevan, et al “The Novelty of Job Rescheduling Algorithm



for wireless Grid Environment” Proceedings of National conference on Computational Intelligence and Information Technology-2k’13, Page 111-113.

2. **P.Vijayakarthishick**, V.Vasudevan, et al “Building Production based on Adaptive Schemes in Real Life Wireless Grid Applications” Proceedings of National conference on Computational Intelligence and Information Technology-2k’13, Page 34-36.
3. **P.Vijayakarthishick**, V.Vasudevan, et al “A Novelty Approach of Inclusive Algorithm in wireless Grid Environment” Proceedings of National conference on Computational Intelligence and Information Technology-2k’13, Page 94-96.
4. **P.Vijayakarthishick**, V.Vasudevan, et al “Incorporating the efficiency of wireless grids scheduling using joint priority scheduling algorithm in wireless grid environment” Proceedings of National conference on computation and communication technologies (NCCCT’13) held on 14<sup>th</sup> and 15<sup>th</sup> March-2013.
5. **P.Vijayakarthishick**, V.Vasudevan, et al “Parallel jobs scheduling strategies for grid meta scheduler in wireless Grid environment” Proceedings of National conference on advanced computing (NCAC’11) held on 9<sup>th</sup> March-2011.
6. **P.Vijayakarthishick**, V.Vasudevan, et al “Job scheduling in grid environment using efficient genetic algorithm” Proceedings of National conference on Imaging, computing, object and mining held at Anna University Trichy on 7<sup>th</sup> & 8<sup>th</sup> May-2010.
7. **P.Vijayakarthishick**, V.Vasudevan, et al “Improving the efficiency of scheduling by using Sequence Process Scheduling Algorithm in wireless Grid environment” Proceedings of National conference on advanced computing (NCAC’11) held on 9<sup>th</sup> March-2011.

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**CONTACT DETAILS:**

Dr.P.Vijayakarthishick M.E ., Ph.D

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R L Jalappa Institute of Technology, Dodballapur.

**Mail ID:** principal@rljit.in vijayakarthishickp@rljit.in

**Phone No.** : 7259893093

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## **Personal Information:**

**Name** : **Dr.P.VIJAYAKARTHIK**

**Date of Birth and Age** : 06.09.81 : 42 years

**Aadhaar Number** : 794151730605

**PAN Number** : AGAPV6713F

**Present Address** : Staff Quarters, RLJIT College campus,  
Kodigehalli, Doddaballapur, Bengaluru Rual

**Reference 1** : **Dr.V.VASUDEVAN Ph.D**  
**Registrar, Kalasalingam University, Tamilnadu-626126**  
Mobile: 9008430150 email : registrar@klu.ac.in

**Reference 2** : **Dr.C.THANGARAJ Ph.D**  
**Former Vice Chancellor, Anna University, Chennai, Tamilnadu.**  
Mobile: 9866660530 email : drcthanganaraj@gmail.com