

Dhanalakshmi BK

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SKILLS

- Knowledge of Cloud Computing , concepts, service models, deployment models, practical implementations, operations, and future trends
- Knowledge of Virtual Machines (VMWare)
- Cloud Management Systems integration
- Experience with cloud computing and data center technologies
- Interface with cloud broker to define and procure services
- Configures cloud-based systems based on defined standards/policies to optimize resource, integration and cost
- Write and speak publicly about the technologies and Ability to solve complex problem.
- Deep understanding of auto-scalability and high-availability concepts on Cloud environments Independent, structured way to work, strong awareness of quality.
- Programing skills efficiency in java and phyton.

EDUCATION

2015 – 2020	SJB INSTITUTE OF TECHNOLOGY	(Ph.D) in Computer science, (Cloud Computing) [Submitted Thesis]
2011 – 2013	RAJIV GANDHI INSTITUTE OF TECHNOLOGY	M.TECH(CSE)
2003– 2008	MVJ COLLEGE OF ENGINEERING	B.E.(ISE)

EXPERIENCE **SJB RESEARCH & DEVELOPMENT CENTER** **BANGALORE, KARNATAKA**

01/2015 – Till date *Research Scholar(Full Time) in the Dept of Computer Science*

08/2008 – 08/2011 **RAJIV GANDHI INSTITUTE OF TECHNOLOGY (Lecturer)** **BANGALORE, KARNATAKA**

Subjects Taught: Finite Automata and Formal Language, UNIX, System Software System, Simulation System Modeling, UNIX Shell Programming and Management Entrepreneurship Guided 6 B.E academic projects Worked as seminar coordinator, cultural events organizer EDUSAT and placement coordinator.

Research work Problem Definition: Cloud computing deals with huge number of servers for storing and retrieving the data and provisioning the resources to end users. when handling the huge requests from end users, the delay and overheads are prevalent and when large scale industries opts for huge number of cloud resources, scaling the entire system is difficult and over or under utilization of resources is also possible and it leads to the high cost. To mine the transactional logs and conducting ETL operations to convert OLTP to OLAP data and devising a mechanism of resource utilization in hybrid cloud environment and unused resources is carry for forwarded for next reservation phase. Doing so we can tune the entire cloud system to the expected reliability value using the predicting values. The predicting value will also help in maintaining elasticity property of cloud system. In this research work the minimization of cost and maximization of the resource utilization is addressed and accurate resources is predicted by using machine learning algorithms.

Objectives of my Research Work:

- Improvement on cloud to minimize the cost and making efficient resource utilization.
- Analysis of user data from the multiple tenants and provides resources utilization, access control for the resources.
- To mine the cloud transactional log data using novel methods to predict the resources utilization factors to avoid on demand resources.
- To device a mechanism to measure the end reliability of the cloud system rising the predicted values which helps in the procurement process.
- To design a novel model to implement the mechanism of elasticity property cloud environment
- To measure the utilization of resources using identity log which controls the access to the resource and accurate prediction of resource to end cloud user using machine learning algorithms.

LIST OF PUBLICATIONS REFEREED JOURNALS

- Dhanalakshmi B K, Srikantaiah K C. Carry Forward and Access Control for Unused Resources in Multi Sharing System of Hybrid Cloud, Journal on Future Generation of Computer Systems, Elsevier., ISSN 0167-739.
- Dhanalakshmi B K, Srikantaiah K C. Efficient Resource Provisioning for Reducing Broker Cost by Using Multi Objective Optimization in Cloud. In Springer, Advances in Intelligent Systems and Computing (AISC), ISSN 2194-5357, Vol. 771, PP. 533-538,2018, UGC Approved Journal No: 33947.
- Dhanalakshmi B K, Srikantaiah K C. Reservation Policy for Multi Sharing in Heterogeneous Cloud User. In springer, Lectures Notes of Network and Systems (LNNS), Vol.75, PP. 187-1944, 2018. Scopus Indexed.
- Dhanalakshmi B K, Srikantaiah K C. Dynamic Computation Threshold value for classifying Jobs in Cloud Computing for efficient Resource Utilization. Journal of Computational and Theoretical Nano science(JCTN), ISSN 1456-1955(Print) 1546- 1963(online).
- Dhanalakshmi B K, Srikantaiah K C. MOPHS: Multiple Output Prediction for Scalability and Elasticity. In Springer, Advances in Intelligent Systems and Computing (AISC).
- Dhanalakshmi B K, Srikantaiah K C. Predicting Multiple Output in Multi-Sharing System, International Journal on Recent Technology and Engineering(IJRTE),ISSN 2277-3878, 8(3):4129-4137, September 2019, Scopus Indexed.
- Dhanalakshmi B K, Srikantaiah K C. Classification and Merging Techniques to Reduce Broker Cost for Better Resource Utilization, Journal on Cloud Computing(IJCC), Inderscience. ISSN 2043- 9997(online), 2043-9989(print), (Communicated).

PRESENTATION S IN REFEREED CONFERENCES

- Dhanalakshmi B K, Srikantaiah K C. Efficient Resource Provisioning for Reducing Broker Cost by Using Multi Objective Imitation in Cloud, In Springer, Second International Conference on Integrated Intelligent Computing, Communication & Security, Springer, SJBIT, Bangalore, India, January 24th 25th, 2018.

- Dhanalakshmi B K, Srikantaiah K C. Reservation Policy for Multi Sharing in Heterogeneous Cloud User. In Springer, Second International Symposium on International Research Symposium on Computing and Network Sustainability (IRSCNS) , G R Foundations, Goa, India, August 30th and 31st, 2018.
- Dhanalakshmi B K, Srikantaiah K C . MOPHS: Multiple Output Prediction for Scalability and Elasticity. In Springer Fourth International Conference on Machine Intelligence and signal Processing (MISP), Indian Institute of Information Technology, Allahabad, September 7th to 10th, 2019.
- Dhanalakshmi B K, Srikantaiah K C. Dynamic Computation Threshold value for classifying Jobs in Cloud Computing for Efficient Resource Utilization. In Second International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA), MSRIT, Bangalore, October-25th to 26th, 2019.
- Dhanalakshmi B K, Arudra. A Cloud Based Secure Access of PHR using ABE. In International Conference on Intelligent Systems on Computing conducted by Dr. AIT, Bangalore, 2013.

SUMMARY

- **Date of Birth** : 10th May 1985
- **Husband Name** : Kiran Kumar N
- **Language Known to Speak**: English, Kannada and Hindi

I hereby declare that the above written are true to the best of my knowledge and belief.

(DHANALAKSHMI.B.K)