

CURRICULUM VITAE

Name : Dr. K. Ammulu

Educational Qualification :

- Ph.D in Computer Science & Engineering from Rayalaseema University, Kurnool in January, 2018.
- M.Tech in Computer Science from JNTU, Kukatpally, Hyderabad in 2004.
- B.Tech in Computer Science & Engineering from S V University, Tirupathi in 2001.

Teaching & Industrial Experience (19 years) :

- Working as Associate Professor in the Dept of Computer Science, Dravidian University, Kuppam from Oct 2010 to till now.
- Worked as Assistant Professor in the Dept of Computer Science, **Dravidian University, Kuppam**, from Apr 2009 to Sept 2010.
- Worked as **Associate Consultant** in **Satyam Computer Services Ltd., Bangalore** from Mar 2006 to 2009.
- Worked as **Assistant Professor** in Dept of Computer Science and Engineering in **Holy Mary Institute of Technology & Science** Hyd., from June 2005 to March 2006.
- Worked as **Assistant Professor** in Dept of Computer Science and Engineering in **R.R.S. College of Engineering and Technology, Hyd.**, from June 2004 to May 2005.
- Worked as **Software Engineer** in **VNS InfoTech Pvt Ltd.**, Hyderabad from June 2001 to Sept 2002.

Areas of Academic Interest:

- Data Mining
- Artificial Intelligence
- Software Engineering
- Block chain Technology
- Business Intelligence

Subjects Taught:

Artificial Intelligence, Object Oriented Programming through JAVA, Advanced Software Technologies, Object Oriented Analysis and Design, Data Warehousing and Data Mining, Data Structures through C, Data Structures through C++, Operating Systems, Computer Organization, Web Technologies, UML, Image Processing, Assembly Language Programming etc.

Academic Committees :

- ✓ Member in Ragging committee – 2010 – 2011.
- ✓ As a member to the Board of Examiners for 2011 – 2012 Examinations, Bangalore University, Bangalore.
- ✓ As Ex-Officio Member of the Board of Studies in Dept. of Computer Science, DU Kuppam.
- ✓ As a member in Policy Research Cell “Call for Expression of Interest (EOI) for initiation of a Research Centre.
- ✓ As a member in Allocation of XII Plan grants submission of Item-wise re- priorities to UGC.
- ✓ As a member in DURCET – 2013.
- ✓ Worked as Head i/c, Dept of Mathematics & Statistics, DU, Kuppam in 2013.
- ✓ Worked as Head i/c, Dept of Computer Science, DU, Kuppam in 2013-14.
- ✓ Worked as Ex -Officio member in Board of Studies in the year 2013-14.
- ✓ Worked as Head, Dept of Computer Science, DU, Kuppam in 2016 -17.

- ✓ Worked as Ex -Officio member of Board of Studies in the year 2016-17.
- ✓ Acted as Co-ordinator for UGC Day Care Centre in the year 2015-2016.
- ✓ Member in Plagiarism Draft preparing committee in the year 2019-20.
- ✓ Worked as Head of the Department, Dept of Mathematics & Statistics, DU, Kuppam in 2013.
- ✓ Acted as Head, Dept of Computer Science & Technology, since May 2019 to August 2022.
- ✓ Appointed as Nodal Officer, Online Learning Activities from July 2021 to till now.
- ✓ Member in University Purchase Committee from July 2020 to April 2022.
- ✓ Acting as Head, Dept of Mathematics & Statistics, since Sept 2022 to till now.

Patent Filed:

- Dr K.Ammulu “ REDUCTION OF SWINE FLU DISEASE MORTALITY BY ANALYZING PATIENTS HISTORICAL DATA USING MODIFIED RANDOM FOREST ALGORITHM” CBR No:38052, Application No:201941047221 Application type: PEMP/E-1/49910 DOCKET No: 97647/2019-CHE, Date: 19.11.2019.
- Developed curriculum for Post Graduate Diploma in **Data Science** course in the department during the year 2019.

Conferences, Seminars, Workshops

And Symposium:

1. A National Level Technical Symposium was conducted on “ Orien 10”, by JNTUH, Hyderabad and presented a paper on “A Novel and Adaptive Algorithm for Image Segmentation” .
2. National Conference on Advanced Computing Applications on 20th – 21st February 2013, paper on “A Coherent Model for Information Extraction“, S.V.University, Tirupathi.
3. National Workshop on“ Cloud Computing & its Application”, 20th - 21st February 2013, S.V.University, Tirupathi.

4. Three day Workshop on “ Advanced Trends in Image Processing and it Applications” 18th – 20th July 2013, R.V.Engineering College, Bangalore.
5. Three days Workshop on “ Knowledge and Management Data Analysis for Real World Applications” 22nd–24th July 2013, R.V.Engineering College, Bangalore.
6. A National Conference on Advanced Computing And Pattern Recognition – 2014, “ An Intelligent Agent for Web Navigation created using Data Mining Techniques”, JNTUH, Karimnagar.
7. A one day Pre-Conference workshop attended on “Advanced Computing and Pattern Recognition – 2014”, JNTUH, Karimnagar.
8. Attended Two-week ISTE Workshop on Computer Programming Conducted by IIT Bombay under the NME through ICT (MHRD, Govt of India) during 16th-21st June 2014.
9. Attended Two-week ISTE Workshop on Introduction to Design of Algorithms Conducted by IIT Kharagpur under the NME through ICT (MHRD, Govt of India) during 27th April,2015 to 30th May,2015.
10. **Conducted** A Two Week Summer Program on “ **Machine Learning – IoT**” during 06.05. 2019 to 20.05.2019.

Papers published in International Journals:

1. K.Ammulu and Dr T.Venugopal, ”Thyroid Data Prediction using Data Classification Algorithm”, International Journal for Innovative Research in Science & Technology| Volume 4 | Issue 2 | July 2017 ISSN (online): 2349-6010, 208 – 212 (IF: 4.371).
2. K.Ammulu and Dr T.Venugopal, ” Mining Web Data using PSO Algorithm”, International Journal for Innovative Research in Science & Technology| Volume 4 | Issue 2 | July 2017 ISSN (online): 2349-6010, 201 – 207 (IF: 4.371).
3. K.Ammulu and Dr T.Venugopal, ” A Study on Quantum Computing”, Journal of Global Research in Mathematical Archives| Volume 4, No.10 | October 2017 ISSN (online): 2320-5822, 64 - 71 (IF: 1.5).

4. K.Ammulu and Dr T.Venugopal, “ Classification of SPECT Heart dataset using efficient modified random forest algorithm ”, Journal of Global Research in Computer Science | Volume 8, No.12 |December 2017 ISSN : 229371X, 01 – 04 (IF:1.2).
5. K.Ammulu, “ Human Activity Recognition from Smart phones using Data Classification”, Journal of Global Research in Computer Science | Volume 8, No.12 |December 2017 ISSN : 229371X, 05 – 12 (IF: 1.2).
6. K.Ammulu and Dr T.Venugopal, “ Classification of Wine Dataset using efficient modified random forest algorithm”, Journal of Global Research in Computer Science | Volume 8, No.12 |December 2017 ISSN : 229371X, 13 – 16 (IF: 1.2).
7. K.Ammulu and Dr T.Venugopal, “ Classification of Arcene Dataset using Modified Random Forest Algorithm”, International Journal of Emerging Technology and Advanced Engineering | Volume 8, Issue 1 |January 2018 ISSN : 2250 - 2459, ISO 9001:2008 Certified Journal, 13 – 16 (IF: 5.119).
8. Dr K.Ammulu “Role of PSO in Data Classification Algorithm.”, International Journal of Recent Scientific Research | Vol. 9, Issue, 5(C), | pp. 27161- 27165 May 2018 | ISSN: 0976-3031, pp. 27161- 27165 (IF: 6.86).
9. Dr K.Ammulu “Diabetes Data Prediction Using Data Classification Algorithm.”, International Journal of Recent Scientific Research | Vol. 9, Issue, 6(B) | June 2018 ISSN: 0976-3031, pp. 27340-27344 (IF: 2017:7.383).
10. Dr K.Ammulu “An affective Web Recommendation Technique by using Web Usage Mining Sequential Patterns.”, JASC: Journal of Applied Science and Computations| Vol. 5, Issue:7 | July 2018 ISSN: 1076-5131, pp. 676-681 (IF: 5.8).
11. Dr K.Ammulu “ Data Mining: To Construct Medical Data Ontology for Identifying Missing Data Attributes .”, JASC: Journal of Applied Science and Computations| Vol. V, Issue:XIII | August 2018 ISSN: 1076-5131, pp. 874-878 (IF: 5.8).
12. Dr K.Ammulu “Design and Implementation of Search Method Using Strong Key

Word Domain Set.”, JASC: Journal of Applied Science and Computations |
Vol. V, Issue:IX | September 2018 ISSN: 1076-5131, pp. 1211-1214 (IF: 5.8).

13. Dr K.Ammulu “ Web Personalization: An Efficient Web Recommendation System by Constructing Frequent Sequential Pattern Trees.”, JASC: Journal of Applied Science and Computations | Vol. V, Issue:X | October 2018 ISSN: 1076-5131, pp. 1600-1605 (IF: 5.8).
14. Dr K.Ammulu “An Implementation of New Modified Random Forest Technique to Predict Patients from Swine Flu Diseases at Early Stage”, International Journal of Emerging Technology and Advanced Engineering | Volume 8, Issue 11 | November 2018 ISSN : 2250 - 2459,ISO 9001:2008 Certified Journal, 135 – 139 (IF: 5.119).
- 15 Dr K.Ammulu “Design and Implementation of Secure Automated Signature Generation System for Detecting Malwares in the Network During Execution”, International Journal of Emerging Technology and Advanced Engineering |Volume 8, Issue 11 |November 2018 ISSN : 2250 - 2459,ISO 9001:2008 Certified Journal, 132 – 134 (IF: 5.119).
16. Dr K.Ammulu “A Novel Parallel Algorithm for Classification of Heavy structured Big Data” International Journal of GIS Science | VOLUME 7, ISSUE 11, 2020| November 2020 ISSN NO : 1869-9391 pp. 1602-1606 (IF:6.1).
17. Dr K.Ammulu “The impact of Artificial Intelligence in Agriculture” JXAT Journal, Volume XIII, Issue I, May 2021.
18. Dr K.Ammulu “Evaluation of Feature Selection Methods for Malicious Web Sites Detection from Suspicious URLs” International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 5, May -2021, Impact Factor: 7.429
19. Dr K.Ammulu “Privacy Preserving Data mining using Random Decision Tree Frame Work” International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 5, May -2021, Impact Factor: 7.429.
20. Dr K.Ammulu “A Particle Swarm Optimization Approach for Workflow Scheduling with CPOP

on Cloud Resources priced by CPU Frequency” Novyi Mir Research Journal Volume 6, Issue 5, May 2021.

21. Dr K.Ammulu “The operative Tree based Distributed Clustering Routing Policy for Energy Efficiency in Wireless Sensor Networks” JXAT Journal, Volume XIII, Issue V, May 2021 ISSN No : 1006-7930
22. Dr K.Ammulu “Improving Cipher text Confidentiality in the Cloud Using File Hierarchy CP-ABE” JXAT Journal, Volume XIII, Issue VII, May 2021, ISSN No : 1006-7930.
23. Dr K.Ammulu “A Novel Bigdata Analysis and Data Quality Validation by Using Hadoop on Spark Framework” Novyi Mir Research Journal Volume 6, Issue 7, June 2021.
24. Dr K.Ammulu “Hinder Cloud Appraisal with Key Updates Checked” JXAT Journal, Volume XIII, Issue VII, 2021, ISSN No: 0130-7673
25. Dr K.Ammulu “ANovel Approach to Detect Edge in Skin Cancer Texture Analysis” International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 7 July -2021, Impact Factor: 7.429.
26. Dr K.Ammulu “Internet-Based Computing Pattern Through Shared Resources Provided To S On- Demand. Promising To Integrating Mobile Devices into Cloud Computing” International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 2 ,February -2021, Impact Factor: 7.429.
27. Dr K.Ammulu “a public key and eliminates the difficulty of infrastructure an outsourcing in cloud service provider” STD Journal Volume X Issue VII, July 2021, ISSN : 0950-0707.

Papers Published in Conference Proceedings with ISBN

1. K.Ammulu, “ An Intelligent Agent for Web Navigation created using Data Mining Algorithm”, published in Conference Proceedings during National Conference on “ Advanced Computing and Pattern Recognition ” (ACPR-2014), JNTUH, Jagitial, Karimnagar [Dist] during 08th -09th Jan 2014.
2. K.Ammulu and Dr T. Venugopal, “ A Study on Data Mining Techniques for Software Components Reuse”, published in Conference Proceedings

- during National Conference on “Information and Communication Technologies” (NCICT-2015), Dravidian University, Kuppam during 26th -27th March 2015.
3. K.Ammulu, “ A Review on Web Intelligence”, published in Conference Proceedings during National Conference on “Information and Communication Technologies” (NCICT-2015), Dravidian University, Kuppam during 26th - 27th March 2015.

INVITED LECTURERS / PAPERS PRESENTED IN CONFERENCES

1. Paper entitled “A Novel and Adaptive Algorithm for Image Segmentation”, presented at National Level Technical Symposium (Orien‘10), JNTUH, Nachupally, Karimnagar during 21st – 23rd October 2010.
2. Paper entitled “A Coherent model for Information Extraction”, presented at National Conference on Advanced Computing Applications (NCACA-2013), S V University, Tirupathi, during 20th – 21st Feb 2013.
3. Paper entitled “Role of Internet in Current Media”, presented at National Conference on Current Media - Trends (NCACA-2013), Dravidian University, Kuppam, during 30th – 31st March 2015.
4. Lecture delivered on Information Technology in UGC - Academic Staff College, S V University, Tirupathi, on 21-03-2014.
5. Invited as a resource person to deliver lecture on Information and Communication Technology in Refresher Course , UGC - Academic Staff College, S V University, Tirupathi, on 27th & 28th of June, 2018.
6. Paper entitled “Role of Artificial Intelligence in Mathematics”, presented at International Conference on Mathematical modeling, Applied Analysis and

Computation (ICMMAAC-20), JECRC University, Jaipur, India during 07-09, Aug 2020.

SEMINARS / TRAINING PROGRAMMES CONDUCTED:

1. National Seminar conducted on Digital Literacy during 19 - 20th August 2016.
2. Two week Summer Programme conducted on “ Machine Learning - IoT” during 06-19 May 2018.
3. One day Training Session was organized on “Microsoft Teams” on 17.08.2021.

FACULTY DEVELOPMENT PROGRAMMES / WORKSHOPS:

1. Attended Five Days FDP on “ Cyber Attacks and Digital Forensics” from 20.07.2020 to 24.07.2020, conducted by Mahatma Gandhi Institute of Technology, Hyd.,.
2. Attended Six Days Workshop on “ Reacts JS” from 05.07.2021 to 10.07.2021, conducted by Teegala Krishna Reddy Engineering College, Hyderabad.
3. Attended Five Days FDP on “INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT ” from 08.06.2021 to 12.06.2021, conducted by St.Peter’s Engineering College, Hyderabad.
4. Attended Five Days FDP on “ PEARL SCRIPTING ” from 10.06.2020 to 14.06.2020 , conducted by Lords Institute of Engineering & Technology, Hyd.,.
5. Attended Seven Days FDP on “ PHP & MYSQL ” from 18.05.2020 to 23.05.2020, conducted by JNTUH College of Engineering, Jagityal.
6. Attended Two Days FDP on “ Cyber Security & Malware Analysis ” from 26.05.2020 to 27.05.2020, conducted by CMR College of Engineering, Hyd.,.
7. Attended Five Days FDP on “ Disruptive Technology ” from 26.05.2020 to 30.05.2020, conducted by St.Peter’s Engineering College, Hyderabad.
8. Attended Five Days FDP on “ An emerging paradigm of low power computational VLSI Design ” from 16.06.2020 to 20.06.2020, conducted by B V Raju Institute of Technology, Hyd.,.
9. Attended Five Days FDP on “ Scilab ” from 15.06.2020 to 19.06.2020, conducted by St.Peter’s Engineering College, Hyderabad.

10. Attended Five Days Online Training Program on “Geospatial Applications for Disaster Risk Management” ” from 19/Jul/2021 To 23/Jul/2021, conducted by National Institute of Rural Development and Panchayati Raj, Hyderabad.

Technical Profile :

- **Java Technologies** : JAVA, C, C++
 - **Framework** : Struts, Spring.
 - **Web Servers** : Tomcat 5.5.
 - **Application Server** : BEA Web Logic 9.0, JBoss 3.2.3.
 - **Web Technologies** : JDBC, Servlets, JSP, HTML, XML.
 - **Business Objects** : EJB, Hibernate.
 - **Operating Systems** : MS-Dos, Windows 98/2000,XP.
 - **Databases** : Oracle.
 - **Tools** : Eclipse 3.3
- IBM web sphere Application Developer(5.1.2),
IBM Rational Application Developer (6.0),EditPlus.

Projects done in Industry:

Project #5

Project Name : CLARIS

Application Server : IBM Rational Application Developer

Environment : JAVA, STRUTS, HIBERNATE,SPRING.

Project Description

CLARIS is a highly functional Fund allocation and Management System developed for CITCO Fund Services for Industry’s leading Administrators, Hedge Fund Managers and Accounting Firms to provide straight-through Management, Tax Allocations and Transactions.

Contribution

- Involved in requirement analysis.
- Involved in coding.
- Involved in code reviews, functional checks.

Project #4

Project Name : NEXTGEN.

Application Server : IBM Rational Application Developer

Environment : JAVA, STRUTS, HIBERNATE, SPRING, ORACLE.

Project Description

The Citco Group is an international group of independent financial services companies offering a unique combination of services to protect, preserve, and enhance the assets of individuals, companies and institutions worldwide. The Company is an entity that enables the order processing and transactions placed by the client. There are various layers in the concept of placement and execution of orders placed by the client through CITCO. There are different company categories and their subsequent types which play an important role in the whole process of the execution of the transaction order placed by the client. All the companies created and stored in the NextGen application need to fall under any of the following categories. Each category may have its own set of company types.

Firm, Service Provider, Service Company, Branch, Nominee Company, Client Company, Trading Company.

The functionalities provided in this module are:

Search/Add a Company (Client and Trading Company). Since, these will be done on a frequent basis.

Search/Add Other Company (Service Provider, Service Company, Branch, Nominee Company). Since, these will not be added on a frequent basis, but they are created on a One-time basis.

View/Edit Company

Contribution

- Was involved in Front-end screens using Struts.
- Involved in code reviews, functional checks.
- Developed Action classes for Company module.
- Prepared test cases for the module developed.

Project #3

Project Name : WAP enabling of Walletwatch.com.

Application Server : IBM Web sphere Application Developer (5.1.2).

Environment : Java, JSP, Servlets, WML,Oracle.

Project Description

Satyam Infoway is one of the leading ISP provider in India, Which is capable of producing stock services through walletwatch.com. The site Walletwatch.com is being converted to the Wap enabled site. In the process, a request would be sent through mobile phone that will invoke the Servlet in the webserver and webserver in turn will fetch the required data from Internet and some data from a database, which is on another remote machine. The data on that remote machine is fetched through socket programming in the webserver and sends back the response to SMS server that in turn sends to customer.

Servlets will invoke the required .JSP file of the corresponding site and in turn it will throw the corresponding html file. This html file is retrieved, read and all values in it that are required are retrieved through Servlet. Those sites where data changes dynamically, information in html file is directly thrown on the wap phone and those sites where information remains constant, data is first written over wml file and then that wml file is thrown over wap phone. Satyam Infoway is one of the leading ISP provider in India, which is capable of producing stock services through walletwatch.com. The site Walletwatch.com is being converted to the wap enabled site. In the process a request would be sent through mobile phone, which will invoke the servlet in the Webserver, and web server in turn will fetch the required data from Internet and some data from a database, which is on another remote machine. The data on that remote machine is

fetches through socket programming in the web server and sends back the response to SMS server, which in turn sends to customer.

Contribution

- Involved in the understanding the requirements
- Developed web pages as per requirements specified by the client.
- Involved in code reviews checks as per the standards circulated by our PM
- Implemented the application as per the architecture specified by the client.

Project #2

Project Name : MARS.

Application Server : IBM Rational Application Developer

Environment : JAVA, STRUTS, ORACLE.

Project Description

The Citco Group is an international group of independent financial services companies offering a unique combination of services to protect, preserve, and enhance the assets of individuals, companies and institutions worldwide. The Company is an entity that enables the order processing and transactions placed by the client. There are various layers in the concept of placement and execution of orders placed by the client through CITCO. There are different company categories and their subsequent types which play an important role in the whole process of the execution of the transaction order placed by the client. All the companies created and stored in the NextGen application need to fall under any of the following categories. Each category may have its own set of company types. Firm, Service Provider, Service Company, Branch, Nominee Company, Client Company, Trading Company.

The functionalities provided in this module are:

Search/Add a Company (Client and Trading Company).

Since, these will be done on a frequent basis.

Search/Add Other Company (Service Provider, Service Company, Branch, Nominee Company).

Since, these will not be added on a frequent basis, but they are created on a One-time basis.

View/Edit Company

Contribution

- Understanding the Requirements.
- Designed Flexible HTML Look and Feel used them for JSP creation.
- Coding & Unit Testing.
- Understanding & Incorporating the Change Requests

Project #1

Project Name : Web Commerce.

Application Server : BEA Web Logic 9.x.

Architecture : MVC

Environment : JSP, Servlets, JavaScript, HTML, Oracle.

Project Description

Web Commerce is primarily developed with the intent of facilitating a reputed company, Which has many vendors at different places and dealing with many customers to overcome a lot of manual work involved in its transactions. This software system enables the company to have fast, efficient and reliable interaction both internally and externally.

Contribution

- Understanding the Requirements.
- Designed Flexible HTML Look and Feel used them for JSP creation.

- Coding & Unit Testing.
- Understanding & Incorporating the Change Requests

(**Dr K.AMMULU**)