

## Curriculum Vitae

**Name:** Dr. ASHIT KUMAR DUTTA

**Designation:** Associate Professor

### Official Affiliation with:

Department of Computer Science and Information Systems  
College of Applied Sciences  
Almaarefa University, Riyadh, 11597  
Kingdoms of Saudi Arabia  
Email : drashitkumar@yahoo.com

**Educational Qualifications:** **Ph.D.(Computer Science)** , **MCA**(Master in Computer Applications ), **M.Tech** (Information Technology), Post Graduation Diploma in **Cyber Security**, **B.E** (Computer Science and Engineering ).

- (i) **Ph.D. in Computer Science** from the “Department of Computer Science”, Jamia Hamdard University, in 2006, New Delhi (India)  
Research area: **Artificial Intelligence and Searching Technique.**
- (ii) Master in Computer Application (**MCA** ) from Utkal University in 1998, Bhubaneswar (India)
- (iii) Post Graduation Diploma in **Cyber Security** from Calorx Teachers’ University.
- (iv) **B.E (Computer Science and Engineering )** From Sarvepalli Radhakrishnan University.

### **Certified Ethical Hacker from EC Council.**

Successfully completed course on **Certified Ethical Hacker v11** at an EC Council Accredited Training Centre “Centre for Agrarian Research Training Education”.

**Ethical Hacking Training** : From Global Institute of Cyber Security and Ethical Hacking.

### **Microsoft Certifications:**

- Microsoft® Certified Professional Developer ASP.NET Developer 3.5
- Microsoft® Certified Technology Specialist : .NET Framework 3.5, ASP.NET Applications
- Microsoft® Certified Technology Specialist (MCTS)
- Microsoft® Certified Professional Developer(MCPD)
- Microsoft® Certified Systems Engineer on Microsoft Windows® Server TM 2003
- Microsoft® Certified Professional
- Microsoft® Certified Systems Administrator on Microsoft Windows Server 2003
- Microsoft® Certified Systems Administrator : Messaging on Microsoft Windows Server TM 2003
- Microsoft® Certified Technology Specialist : SQL Server 2005

### **Sun Microsystems Certifications:**

- Sun Certified Programmer for the Java 2 Platform, SE 5.0
- Sun Certified Web Component Developer for Java Platform Enterprise Edition 5

### **Cisco Career Certifications:**

- Completed the Cisco Career Certifications and recognized as a **Cisco Certified Network Associate**

### **Employment Details:**

**(More than 17 years of teaching experience in India, Jordan and Saudi Arabia.)**

**Associate Professor** Department of Cyber Security, College of Engineering and IT, Onaizah Colleges Saudi Arabia.( From September 2019- August-2020).

**Associate Professor And Head of Department** Faculty of Computer and Information Technology, Department of Computer Science(Alquwayayah) , Shaqra University Saudi Arabia.( From October 2012- August 2019).

**Associate Professor And Head of Department** Faculty of Computer and Information Technology, Department of Computer Science(Alquwayayah) , Shaqra University Saudi Arabia.( From October 2012- August 2019).

**Assistant Professor** Faculty of Computer and Information Technology, Department of Computer Science(Alquwayayah), Shaqra University Saudi Arabia.(From September 2009 – September 2012).

**Assistant Professor** in the Faculty of prince Al-Hussein Bin Abdullah II – for Information Technology, Department of Computer Science and Applications, **Hashemite University** (Government university), Zarka, **Jordan**.(From February 2007 – August 2009).

**Associate Professor And Head of Department** in the Department of Computer Science and Information Technology, **Institute of Technology and Management Now(ITM University)**, Gurgaon, Haryana, India. (From July 2006 – January 2007).

**Assistant Professor And Head of Department** in the Department of Computer Science and Information Technology, TIAS(**Guru Gobind Singh Indraprastha University**) New Delhi, India. (From August 1999 – July 2002).

**Analyst-programmer** in Info solution,Rourkela India. (From August'1998 – July'1999).

#### **Books Published:**

1. “Computer Network from Scratch”, **Dr.Ashit kumar Dutta**, Abdul Rahaman Wahab Sait, Lap Lambert Academic Publishing, **Germany** ISBN: 978-36-5937-129-5
2. “Artificial Intelligence-An Introduction to a Modern World” **Dr.Ashit kumar Dutta**, Abdul Rahaman Wahab Sait, ISBN: 978-93-5196-260-1
3. “Data Mining Applications and Techniques for Next Generations” **Dr.Ashit kumar Dutta**, Abdul Rahaman Wahab Sait, ISBN : 978-93-5196-258-8

**Research Publications:** (International journals and proceedings  
of Computer Science and Technologies)

**(Research Papers published in various ISI and SCOPUS Indexed Journals)**

1. Dutta, Ashit Kumar, H. S. Alarawashdeh,. “Multi-Objective WSN Detection Model in the Internet of Underwater Things (IoUT) for Smart Cities,” Artificial Intelligence Applications for Smart Societies, Springer Nature Switzerland AG 2021.
2. Dutta, Ashit Kumar, “IoT Based Lung Cancer Diagnosis Model Using Convolutional Neural Network and Random Forest Classifier accepted to publish in “Intelligent Automation & Soft Computing”

3. Dutta, Ashit Kumar, "Managing natural hazards in smart cities in Kingdom of Saudi Arabia using a technique based on interior search algorithm," Electronic Government, an International Journal, Vol. 16, Nos. 1/2, 2020.
4. Dutta AK, Elhoseny M, Dahiya V, Shankar K. "An efficient hierarchical clustering protocol for multihop Internet of vehicles communication," Transaction on Emerging Telecommunications Technologies (ETT), July 2019, <https://doi.org/10.1002/ett.3690>.
5. Dutta, Ashit Kumar, "Extracting Pattern From Large Data Corpus Using Approximate Reasoning And Intuitionistic Fuzzy Clustering Techniques," Journal of Theoretical and Applied Information Technology, Volume 97, Issue 7, 2019.
6. Dutta, Ashit Kumar, "Fuzzy Clustering with Particle Swarm intelligence for Large Dataset Classification," TEM Journal, Volume 7, Issue 4, 2018.
7. Dutta, Ashit Kumar, "A fuzzy based soft computing technique to predict the movement of the price of a stock," International Journal of Advanced Computer Science and Applications, Vol.9, No. 02, 2018.
8. Saley Alyahya, Dutta, Ashit Kumar., "Optimization of RFID-enabled networks using fuzzy logic technique," International Journal of Advanced Science and Technology, Vol. 29, No. 03, (2020), pp. 9274 - 9288.
9. Dutta, Ashit Kumar, "Data visualization technique for smart city management," Proceedings of International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ICECEIC-2019), catalog CFP19R88-PRJ-978-1-7281-0173-6, IEEE- Conference Record # 45942.
10. Dutta, Ashit Kumar, Hazim Saleh AlRawashdeh., "Multi-objective WSN detection Model in Internet of Underwater Things (IoUT) for Smart Cities," has been accepted to included in book titled "Recent Advances in Sensing Technologies for Smart Cities", Springer (<https://easychair.org/cfp/rastsc19>) and it will be published in (Scopus Indexed) Journal by Springer.
11. Dutta, Ashit Kumar, "Intuitionistic Fuzzy Logic Implementation in Image Fusion Technique," Asian Journal of Research in Computer Science, Vol.1, Iss.1, 2018.
12. Dutta, Ashit Kumar, "An application to support stuttering people by implementing linguistic variable based on fuzzy logic," International Journal of Computer, Vol. 28, No-1, 2018.
13. Dutta, Ashit Kumar, "Computing with words Using Intuitionistic Fuzzy Logic Programming," International Journal of Engineering and Technology, Vol 7(1.9), 2018, 178-181.

14. Dutta, Ashit Kumar, "Deployment of Soft-Computing for System Computing and Informatics," American Journal of Computer Science and Information Technology, Vol.6 No.2:18, 2018, DOI: 10.21767/2349-3917.100018.
15. Dutta, Ashit Kumar, "Classification of Arabic text corpus using enhanced fuzzy c-means algorithm," International Journal of Pure and applied Mathematics, Vol. 116, No.10, 2017, PP. 331- 339.
16. Dutta, Ashit Kumar, "Oil Exploration using Soft Computing," Global Journal of Computer Science and Technology, Volume 17, Issue 3, 2017.
17. Dutta, Ashit Kumar, "An efficient algorithm for web search optimization," International Journal of Scientific & Engineering Research, Vol.7, issue-1, 2017.
18. Dutta, Ashit Kumar, "Implementation of Neutrosophy Logia to Evaluate the Effectiveness of Online Questionnaire," Journal of Basic and Applied Research International (ikpress), Volume 17 Issue 4, 2016.
19. Dutta, Ashit Kumar, "Detection of Malware and Malicious Executables Using E-Birch Algorithm," International Journal of Advanced Computer Science and Applications (IJACSA), Volume 7 Issue 1, 2016, New York, NY 11432,.
20. Dutta, Ashit Kumar, "Analysis of side effects of chemotherapy treatment for cancer patients using Neutrosophic cognitive graphs (NCG) ," International Journal of Applied Engineering Research ISSN 0973-4562 Volume 11, Number 1, (2016) pp. 401- 403.
21. Dutta, Ashit Kumar, "An Application of Fuzzy Logic in the Artificial Neural Network ," European Journal of Scientific Research Volume 136 No 1, November 2015, Mahé, Seychelles.
22. Dutta, Ashit Kumar, "Automated Recommendation of Information to the Media by the Implementation of Web Searching Technique," International Journal of Computer Science & Information Security Vol. 13 No. 10, October 2015, Pennsylvania, USA.
23. Dutta, Ashit Kumar, "Structured Query Language (SQL) Answering Model for User Queries based on Intuitionistic Fuzzy Logic," International Journal of Computer Applications (0975 – 8887) Volume 129 – No.1, November 2015, U.S.A.
24. Dutta, Ashit Kumar, Abdul Rahaman Wahab Sait "An Application of Intuitionistic Fuzzy in Routing Networks," International Journal of Advanced Computer Science and Applications (IJACSA), Vol.03, Issue 06, June 2012.

25. Dutta, Ashit Kumar, Abu Sarwar Zamani, Elrashied mohmed ahmed elrayah “An Application of Fuzzy in Routing Networks,” journal of Innova Ciencia,vol.4 issue 4, April 2012.
26. Dutta, Ashit Kumar , Ayman el-Sayed, “A New Flexible Dynamic Heterogeneous Data Structure,” International Journal of Current Research and Review (IJCRR) Vol.04, Issue 06, March 2012.
27. Dutta, Ashit Kumar “Earthquake prediction using Artificial Neural Networks,” International Journal of Research and Reviews in Computer Science, (IJRRCS), Vol.02, Issue 06, January 2012.
28. Dutta, Ashit Kumar, “Developing an Intelligent User Interaction Development Engine,” International Journal of Computer Science Issues, Vol. 8, Issue 6, No 1, November 2011.
29. Dutta, Ashit Kumar, Al-adhaileh, Mosleh Hmoud a, “E-learning in Higher Education: Design & implementation,” International Journal of Computer Science Issues, Vol. 8, Issue 4, No 2, July 2011.
30. Dutta, Ashit Kumar , Ayman el-Sayed., “Method of Intelligent Technique In Searching Networks,” International journal of research and review in computer science, Vol2(2), April, 2011.
31. Dutta, Ashit Kumar, Nasser Saad AL-Arifi, “A Study of Neutrosophic technology to retrieve Queries in Relational Database,” International Journal of Computer Science and Emerging technologies Vol2(1) ,February, 2011.
32. Zamani Abu Sarwar, Nasser Saad AL-Arifi , Dutta, Ashit Kumar, “Emerging cloud computing,” International Journal of Enterprise Computing and Business Systems, Vol. 1 Issue 2 January 2011.
33. Dutta, Ashit Kumar, Nasser Saad AL-Arifi, “Neutrosophic Logic – Generalization of Vague Relation,” Journal of Computing”, Vol3(1), January, 2011.
34. Dutta, Ashit Kumar, Al-adhaileh, Mosleh Hmoud a, “A Method of Intuitionistic Fuzzy Functional Dependencies in Relational Databases,” European Journal Of Scientific Research, Vol(29), 2009.
35. Dutta, Ashit Kumar, and Biswas, R, “A Study of Vague Search to Answer Imprecise Query,” International Journal of Computer Science and Network Security, Vol. 9 (5) pp. 198-205, 2009.

36. Dutta, Ashit Kumar and Idwan, Sahar, "Algorithms of Normalization of Vague Databases," *Mass Communicator: A Journal of Communication Studies* Vol. 2 (2): 2008.
37. Dutta, Ashit Kumar, Ansari, A.Q, and Biswas,R, "A Method Of Intelligent Search To Answer Queries In Relational Databases," *INFORMATION an International Journal* Vol 10(6) 781- 798, (November 2007).
38. Dutta, Ashit Kumar, Ansari, A.Q, and Biswas,R, "A Method of Intelligent search," *International Journal of Computational Cognition* ,Vol 4(2):24 - 29 (June 2006) .
39. Dutta, Ashit Kumar, "Intuitionistic Fuzzy Search Using Dynamic-Programming Principle,"*Voyager – The Journal of Computer Science and Information Technology* Vol3(1): 1-6, (2006).
40. Dutta, Ashit Kumar, Ansari, A.Q., and Biswas,R., "Fuzzy Search Using Dynamic-Programming Principle," *Asian Journal of Information Technology* Vol 4(1): 7-13,2005.
41. Dutta, Ashit Kumar and Ansari, A.Q, "A Method of Intuitionistic Fuzzy Search," *Proceedings of Seventh International Conference on Intuitionistic Fuzzy Sets, Part–2, 23–24 August 2003, Sofia, Bulgaria.*
42. Dutta, Ashit Kumar, "Pattern Extraction From Web Data Using Web Intelligence Technique," Paper has accepted in *International Journal of Information Technology Project Management (IJITPM)*.
43. Dutta, Ashit Kumar, "Oppositional Crow Search Algorithm Based Optimal Feature Selection for Medical Image Classification Using Deep Learning Model," Paper has communicated to *Journal of Medical Systems*.
44. Dutta, Ashit Kumar, "IoT Based Lung Cancer Diagnosis Model Using Convolutional Neural Network and Random Forest Classifier," Paper has communicated to *Intelligent Automation & Soft Computing*.
45. Dutta Ashit Kumar, "Developing an automated framework for detecting phishing websites using machine learning technique" Submitted to *PLOS ONE*.

#### Research Interests:

Artificial Intelligence and Machine Learning, Cyber Crime and Security , Data Science and big data, Internet of Things (IoT), Network Security, , Cloud Computing, Intelligent Systems, Soft Computing, Searching Techniques.

## **Responsibilities taken in current and previous employment**

- Member of the Scientific Research Committee at Almaarefa University from June 2021 , 8 until now
- Chairman of the committee supervising the preparation of the master's program in cybersecurity at Al Maarefa University from March 2021 , 22 until now
- Member of the Quality Committee for German Academic Accreditation Azin for the Programs of the Department of Computer Science and Information Systems at Al-Maarefa University from February 11 2021 ,until now
- Coordinator of the Health Information Systems Program at the Department of Computer Science and Information Systems at Al Maarefa University from February 11, 2021 until now
- Coordinator of the Computer Science Program at the Department of Computer Science and Information Systems at Al Maarefa University to obtain the German academic accreditation Azin from February 11, 2021 until now
- In the Quality Committee member for the Department of Science Computer and Information Systems at the University of knowledge from January 28 2021 now
- Committee member of scientific research in the Shaqra University.
- Supervise the preparation of all academic activities.
- Monitor operations and routine maintenance of the Internet routers/ switches of the college.
- Supervision and periodic maintenance of all computer labs.
- Supervise the preparation of all periodic tests and Term – Final Examination.
- Participate in the workshops and the Special Committee meetings to develop the study plan and characterization of the curriculum for all computer science departments of Shaqra University to meet the standard of Kingdom of Saudi Arabia recruitment pattern.
- Proposed numerous scientific and research projects in the computer science Department.
- Member of Accreditation committee of my department, King Saud University, Kingdom of Saudi Arabia.
- Coodinator for Smart Board Application,King Saud University, Kingdom of Saudi Arabia.
- Developed curriculum for B.Tech, M.Tech and MCA MD University,India
- Responsible to develop and implement online Examination and student feedback
- Chaired and organized Faculty Development program in Artificial Intelligence and soft Computing.
- Chaired and organized IT Festival.
- Chaired and organized the Guest Lecture (Invite eminent person from Industry or Academic to give Lecture to IT students)



### **Editorial Board Membership in Journals :**

- Managing Editor in chief in the “International Journal of Computing Science and Information Technology.
- Member in the “Editorial Board” of the journal “International Journal of Computer Mathematical Sciences and Applications”.
- Member in the “Editorial Board” of the journal “Australian Journal of Basic and Applied Sciences”.
- Member in the “Editorial Board” of the journal “Journal of Computer Science and Information Technology”.

### **Ph.D. Guidance and Evaluation**

- ✓ Evaluated Ph.D. thesis in Computer Science as an External Examiner of the Amman Arab University of Graduate studies, Jordan for an award the degree of Ph.D in Computer Science.

### **Major Research Activities:**

Research Project Completed/In process:

1. My research project entitled “Developing and pre-processing a dataset using a rhetorical relation to build a Question-Answering system based on an unsupervised learning approach” has been accepted and funded by Almaarefa University.
2. My research project entitled “Social Media Mining To Combat Cyber Terrorism Using Machine Learning Methods” has been accepted by Shaqra University, Kingdom of Saudi Arabia.
3. DST sponsored project entitled Fuzzy Control System for Industrial Application (Completed)
4. The research project entitled “Developing an Intelligent Searching Techniques” submitted to Deanship of Scientific Research and Graduate Studies Hashemite University, Jordan March 2009 (Completed)

### **Membership of Professional /Learned Bodies /Societies**

- Member, The Institute of Electrical and Electronic Engineer (IEEE) Inc., U.S.A.
- Fellow, The Institutions of Electronics and Telecommunications Engineers (IETE), India.
- Member, Computer Society of India.
- Member, International Association of Engineers Society of Artificial Intelligence
- Life Member, International Association of Engineers.

- Life Member, International Association of Engineers Society of Computer Science
- Member, International Association of Engineers Society of Scientific Computing

### **Awards/ Academic Recognition**

- I was a committee member for sixth scientific forum for students of Shaqra University to judge students for their new scientific innovation, which was held on 19-21/06/1439 in Shaqra University
- I have supervised all training programs that were held in the department of computer science, college of science and humanities alquwayayah during the year 1438/1439.
- Member in Entrepreneurship and innovation unit in alquwayayah workshop on how to create a job for students
- Awarded the Certificate of appreciation for esteemed teamwork and coordination in organizing the iLMS online examination conducted by College of Computing and Information Technology Shaqra University AlQuwayayah Branch n 20th November 2017.
- Awarded the Certificate “GET READ PUBLISH WITH SPRINGER “ Worship Organized by King Abdul-Aziz City For Science Technology and King Saud University held on March 21, 2011
- Member in a scientific day of college to select students to give award with the new innovative idea.

### **Short-Term Courses Attended:**

- I have attended the Training program on network and computer maintenance that was held by Deanship of community service and continuous education, Shaqra University from 15/07/1439 to 18/07/1439 for 16 hrs.
- I have attended the workshop on “ Learning outcomes in the program planning delivery and evaluation” conducted by the British Council.
- I have attended the workshop on “Program and Course Learning Outcomes based on NQF” Conducted by Shaqra University on 18 February 2012.
- I have attended the workshop on “ The First Self Evaluation Program and University Award for Excellence” Conducted by Shaqra University on 25 December 2012.
- One week Training programme on Quality Assurance, Hashemite University, Jordan 2009
- Two weeks work shop on E-learning software, Hashemite University, Jordan, 2008
- Two weeks work shop on Artificial Intelligent and soft computing ,ITM, New Delhi, 2006

- Two months summer school on Advanced Java Programming and project ,Royal software ,New Delhi,2000.
- One month training programme on Visual Basic and Oracle and developer 2000, Info Solution ,Rourkela,1998
- Proficient in Computer Hardware, Software installation and maintenance.
- Two weeks work shop on Faculty Development Program, GGS Indraprastha University, New Delhi,2001.

### **Project Supervised:**

- 12 Channel Infrared Remote Control Systems
- Water Cooling System By Using Ultrasonic And Integrated Systems
- Stock Recommendation System
- Proximity Sensor Robot
- Low Cost IC Programmer
- LAN to WAN Connection with DHCP
- Develop An Application For Department Of Computer Science Using An Android Studio
- Prepaid Energy Meter Using Smart Card
- Security on layer 2&3 in Shaqra University Intranet
- Online Competitive Examination
- Wireless ROBO Control by PC
- Car rental Application
- Traffic Control System for Hashemite Kingdom of Jordan 2007 (Hashemite University)
- Development of improved impulse noise detection schemes (Hashemite University)
- Web Application using ASP.NET 2007 (Hashemite University)
- Bluetooth Application 2008 (Hashemite University)
- Design E-learning courses for Compiler and Operating System 2008 (Hashemite University)
- A Case study of Nanotechnology 2008(Hashemite University)
- Text Extraction System using VB 2005 (ITM)
- Online Examination System using Java and MS SQL 2006 (ITM)
- Mobile banking system using VB, Oracle 2006 (ITM)

### **Seminar/Conference/ organized and/or attended:**

- Data visualization technique for smart city management Proceedings of International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ICECEIC-2019) with catalog CFP19R88-PRJ-978-1-7281-0173-6 IEEE- Conference Record # 45942.
- Organized a National Seminar on “Smart Governance for Rural

Development” on 17-18<sup>th</sup> February 2006, at India Habitat Center, New Delhi.

- Coordinator, National Seminar on Renewable Energy Technology and Application on 6<sup>th</sup> January 2006, ITM, Gurgaon, India.
- Organized a National Seminar on “Smart Governance for Rural Development” on 15<sup>th</sup> October 2004, at India Habitat Center, New Delhi.
- Organized a National Seminar on “Information Technology and Human Development” on April 16-17, 2004 at TIAS, New Delhi
- A Method of Intuitionistic Fuzzy Search, Proceedings of Seventh International Conference on Intuitionistic Fuzzy Sets, Part-2, 23–24 August 2003, Sofia, Bulgaria.
- Organized an International Conference of “India in the Knowledge Millennium” on September 10- 11, 2003 at Hotel Inter Continental, Barakhamba Road, New Delhi
- Organized an International conference on “Globalization of Business & Markets: Strategies for the 21<sup>st</sup> Century” on December 11-12, 2002 at Hotel Taj Place, New Delhi
- Organized a National Conference on “Customer Relationship Management” on 22<sup>nd</sup> January 2001 at Scope Complex, Lodi Road, New Delhi
- Organized a Seminar on E-Vision-2001 at Tecnia Institute on 27<sup>th</sup> Aug 2001
- Organized a National Conference on “Involving Dimensions on Human Resource Management in the new Millennium at YMCA complex on 28<sup>th</sup> October, 2000.

**Subjects taught (Master and Bachelor level ) or  
at B.Tech / M.Tech and MCA level) :**

- Artificial Intelligent and Machines Learning
- Big data
- Cloud computing
- Cybercrime and Security
- Intrusion detection
- Cryptography
- Compilers
- Network and Internet Security
- Java Programming
- Python Programming

- System Programming & System Administration
- Vulnerability analysis & penetration testing
- Design and analysis of Algorithm
- Software Engineering
- Multimedia
- Embedded System Design
- Operating System
- Distributed System
- Digital Image Processing
- Computer Graphics
- Soft Computing
- System Analysis and Design
- Database Management System
- Computer System architecture
- Web Programming
- E-Commerce and ERP
- Principle of Programming Languages
- Mobile Application
- Visual Basic with .NET