

Dr. AMAN KUMAR SHARMA

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Career Objective

To pursue a challenging and progressive career in the field of computer science and to use my skills in the best possible manner to achieve the goals of the institution.

Professional Qualification

- ◆ **Doctorate** from the Faculty of Physical Sciences, Himachal Pradesh University, on “Component Based System: A Quality Assurance Framework” under the supervision of Prof. (Dr.) Arvind Kalia, Department of Computer Science, Himachal Pradesh University, Shimla and Prof. (Dr.) Hardeep Singh, Department of Computer Science, Guru Nanak Dev University, Amritsar in 2013 from Himachal Pradesh University, Shimla.
- ◆ Master in Computer Application (**M.C.A.**) in June 1996 from Himachal Pradesh University, Shimla.
- ◆ Bachelor of Commerce (**B.Com.**) in June 1993 from Himachal Pradesh University, Shimla.

Academic Achievement

- Obtained 100 % marks in Business Statistics in B.Com.

Work Experience

- ◆ Worked with corporate for one year in software development.
- ◆ Chairman, Computer Science Department, Himachal Pradesh University, Shimla 2019-2021.
- ◆ Working as a faculty member in the Department of Computer Science, Himachal Pradesh University, Shimla for the past 25 years teaching at Graduate and Post Graduate level.
- ◆ Presently working as Professor in the Department of Computer Science, Himachal Pradesh University, Shimla.

Research Profile

Ph.D. Supervision

- Amit Nayyar, “Software Defined Network: A Scalability Framework with Enhanced Protocol” 2021, Himachal Pradesh University.
- Bhawna Jyoti, “Test Case Suite Optimization Framework Using Metaheuristic Algorithms in Regression Testing” 2023, Himachal Pradesh University.
- Presently eight research scholars enrolled under Ph. D. programme.

M. Tech / M. Phil. Guidance

1. Bhuvnesh Kumar, H.P. University, 2006-08, “Study of Software Engineering Tools”.

2. Rajesh Mohini, H.P. University, 2006-08, "Analysis of Software Design Techniques".
3. Manisha Arora, H.P. University, 2006-08, "Analysis of Component Based Software Development Models".
4. Nikhil, H.P. University, 2007-09, "Empirical Study of Software Testing methods".
5. Jagdish Chand, H.P. University, 2008-2010, "Empirical Study on Data Mining Methods".
6. Sachin Katoch, H.P. University, 2008-10, "Empirical Study on Web Mining Methods".
7. Vikas, H.P. University, 2008-10, "Empirical Study on Data Warehouse Methods".
8. Tanuja Gupta, H.P. University, 2009-11, "Quantitative Validation of CK Quality Metrics for OSS".
9. Vasundhara Rani, H.P. University, 2009-11, "An Empirical Study on Requirements Elicitation Techniques".
10. Kumari Shailja, H.P. University, 2009-11, "Empirical Study of Software Effort Estimation".
11. Dinesh Kumar, H.P. University, 2010-12, "User Acceptance of Desktop Software: A Framework".
12. Madhusudan, H.P. University, 2010-12, "Parsing Using Multiple Pipelining: A Framework".
13. Anju Bala, H.P. University, 2011-13, "An Improved Algorithm for Marker Based Watershed Transformation in Image Segmentation".
14. Naveen Singh Gill, H.P. University, 2011-13, "Case Study of the Impact of E-Bank in Kinnaur District".
15. Tanuj Wala, H.P. University, 2012-14, "Analysis and Evaluation of Software Testing Tool".
16. Yogita Sharma, H.P. University, 2012-14, "A Comprehensive Study and Enhancement of Bug Tracking Tools".
17. Sahil, H.P. University, 2014-2016, "Mobility Based Analysis of Horizontal Handover in WIFI & WIMAX".
18. Kalpana Devi, H.P. University, 2014-2016, "Academic Websites: Construction and Evaluation of Quality Framework".
19. Neha Thakur, H.P. University, 2015-2017, "Construction and Validation of Audit Service for Data Integrity on Cloud".
20. Palak Aar, H.P. University, 2015-2017, "Penetration Testing: Analysis and Modification of Tool".
21. Akriti Vyas, H.P. University, 2015-2017, "E-Commerce Websites: Construction and Validation of Quality Assurance Framework".
22. Chetna Sharma, H.P. University, 2016-2018, "Improvisation of random forest Classifier by feature Selection in Machine Learning".
23. Vanika, H.P. University, 2016-2018, "An Improved Deadline Constraint Scheduler for Hadoop".
24. Kunal Thakur, 2017-2019, "Performance Evaluation of Mobility Models in Network Simulator-3".
25. Ajay Kumar, 2017-2019, "Data Retrieval: An Empirical Study of Big Data Frameworks".
26. Himanshu Thakur, 2018-2020, "Supervised Machine Learning Classifiers: Computation of Best Result of Classification Accuracy".

27. Rohit Verma, 2018-2020, "Implementation of Improved Cryptography Algorithm".
28. Rajat Sharma, 2018-2020, "A Framework on Energy Efficient Routing Protocol in Wireless Body Area Network".
29. Shivam, 2019-2021, "Comparison of Cross Platform Development Tools".
30. Lakshi Dhiman, 2019-2021, "MANETs: An Assessment of Routing Protocols".
31. Bhumika Sood, 2020-2022, "Greedy Algorithms for Shortest Path Optimization: Implementation and Comparison".
32. Vaishali Kanwar, 2020-2022, "Performance Analysis of Asymmetric Cryptography Algorithm".

Computerisation

- ◆ **Developed** and implemented a **Software** for Academic Staff College, Himachal Pradesh University for computerization of administrative operations in the office pertaining to Refresher Course and Orientation Programme in December 2006.
- ◆ **Developed** and implemented a **Software** for Academic Staff College, Himachal Pradesh University for conducting online evaluation test of participants of Refresher Course and Orientation Programme in June 2006.
- ◆ **Developed** and implemented **Software** for the office of the Chief Warden for the allocation of hostel to the students in 2002.
- ◆ **Developed Software** for the International Centre for Distance Education Open Learning H.P. University to computerize the data of the students of the centre in 2000.

Invited Talks

- ◆ Delivered **66** Lectures as **Resource Person** at Academic Staff College, Himachal Pradesh University in different Orientation Programmes (OP) and Refresher Courses (RC).
- ◆ Delivered **36** Lectures as **Resource Person** at Human Resource Development Centre, Himachal Pradesh University in different Orientation Programmes (OP) and Refresher Courses (RC).
- ◆ **Visiting faculty** to the University College of Business Studies (UCBS) since 1997 for BCA and BBA degree courses.
- ◆ **Visiting faculty** to the International Centre for Distance Education Open Learning (ICDEOL), H.P. University for MCA, BCA, PGDCA, M.Com. & APGDIT course.
- ◆ **Visiting faculty** to the HP University Business School for MBA course.
- ◆ **Visiting faculty** to the Department of Education, HP University for B.Ed. course.
- ◆ Delivered **Lecture** on "IT Factor for Managing an Unit: An Impending Need" at HIMCON, Shimla on 23rd September 2014.
- ◆ Delivered **Lecture** on "Innovation in Information Technology" at Academic Staff College, Panjab University, Chandigarh on 15th December 2014.
- ◆ Delivered **Lecture** on "A Viable Solution to Demonetization" at Nehru Yuva Kendra Sangathan, Shimla on 29th December 2016.

- ◆ Delivered **Lecture** on “Information Technology and Social Media” at Nehru Yuva Kendra Sangathan, Shimla on 1st February 2017.
- ◆ Delivered **Lecture** on “Stalking Online Activities” at Academic Staff College, Kurukshetra University, Kurukshetra on 03rd November 2017.
- ◆ Delivered **Lecture** on “Computer Virus” at Nehru Yuva Kendra Sangathan, DIET, Shimla on 12th September 2017.
- ◆ Delivered **Lecture** on “Emerging Trends in ICT” at Human Resource Development Centre, Panjabi University, Patiala on 27th June 2018.
- ◆ Delivered **Lecture** on “E-Waste Management” at Academic Staff College, Kurukshetra University, Kurukshetra on 05th December 2018.
- ◆ Delivered **Lecture** on “Journey of Software” at Computer Science Department, Jammu University, Jammu on 07th March 2019.
- ◆ Delivered **Key Note Address** in National Seminar on Cyber Laws & Cyber Crimes at University Institute of Legal Studies, Himachal Pradesh, India on 28th September 2019.
- ◆ Delivered **Lecture** on “ICT” at Human Resource Development Centre, Panjabi University, Patiala on 29th February 2020.
- ◆ Delivered **Lecture** on “Stalking Online Activities” at Department of Higher Education, Jammu on 05th March 2020.
- ◆ Delivered **Key Note Address** in International Conference on Advances in Multi Disciplinary Sciences & Engineering Research (ICAMSER-2021) at Chitkara University, Himachal Pradesh, India on 2nd July 2021.
- ◆ Delivered **Lecture** on “Soft Skills” at Government College Centre of Excellence, Shimla, Himachal Pradesh, India in Capacity Building Programme on 12th August 2021.
- ◆ Delivered **Lecture** on “Shift in the Paradigm of Research” at DAV College Jalandhar, under “Cyber Jaagrookta (Awareness) Diwas” Home Secretary, Government of India on 23rd October 2021.

Area of Interest

Operating System, Software Quality, Information System Development.

Project (03)

- ◆ **Submitted Research Project Proposal** with UGC Titled “To propose a framework comprising of Practices Necessary for a Safe Experience in Cyber Space” of an estimated amount of Rs.19,94,000.
- ◆ **Submitted Research Project** with State Council for Science, Technology & Environment, Shimla Titled “An Assessment of Digital Data Protection: A Case Study of Universities in Himachal Pradesh”.
- ◆ **Submitted Research Project Proposal** with UGC Titled “A Framework for An Assessment of Cloud Service Providers in terms of Cloud Security” of an estimated amount of Rs. 19,05,000.

Membership

1. Life Membership of Computer Society of India – Mumbai. Card no. I1501409.

2. Life Membership of The Indian Science Congress Association (TISCA) – Kolkata. Card no. L34289.

HPCSA

Public Relations Secretary of the **HIMACHAL PRADESH COMPUTER SCIENCE ASSOCIATION (HPCSA) (Registered under H.P. Societies Registration Act, 2006).**

Coordinator

Coordinator MCA, PGDCA, APGDIT, BCA and all computer related courses of **ICDEOL**, Himachal Pradesh University, Shimla from 5th July 2014 to 13th September 2017.

Chairman

Computer Science Department, Himachal Pradesh University, Shimla 2019-2021.

Research Papers

International Journals

1. Dr. Arvind Kalia, Dr. Hardeep Singh, **Aman Kumar Sharma** and Anita Ganpati, “Software Testing Methods: A Comparative Study of North Indian Software Industry”, Published in International Journal of Engineering & Information Technology, Vol. 02 No. 3 December 2010 pp. 146-150, **ISSN-0976-0253 (Online).**
2. **Aman Kumar Sharma** and Suruchi Sahni, “A Comparative Study of Classification Algorithms for SPAM email Data Analysis”, Published in International Journal on Computer Science and Engineering, Vol. 3 Issue 5 May 2011 pp. 1227-1232, **ISSN 0975-3397 (Online) 2229- 5631 (Print).**
3. **Aman Kumar Sharma**, Pratibha Sharma and Anita Ganpati, “Comparing the Efficiency of Minutia Based & Improved Fingercode Fingerprint Algorithm”, Published in International Journal of Computer Science & Information Technology, Vol. 2 No. 4 July 2011 pp. 1398-1399, **ISSN-0975-9646.**
4. **Aman Kumar Sharma**, Anita Ganpati and Tanuja Gupta, “Empirical Validation of Quality for OSS Using CK Metric Suite”, Published in International Journal of Engineering Sciences, Vol. 4 Special issue September 2011 pp 179-189, **ISSN- 2229-6913.**
5. **Aman Kumar Sharma**, Dr. Arvind Kalia and Dr. Hardeep Singh, “An Analysis of Optimum Software Quality Factors”, Published in International Organisation of Scientific Research Journal of Engineering [IOSRJEN], Vol. 2 No. 4 April 2012 pp. 663-669, **ISSN-2250-3021.**
6. **Aman Kumar Sharma**, Dr. Arvind Kalia and Dr. Hardeep Singh, “Empirical Analysis of Object Oriented Quality Suites”, Published in International Journal of Engineering and Advanced Technology [IJEAT], Vol. 1 Issue 4 April 2012 pp. 163-167, **ISSN-2249-8958.**
7. Kiran Bindu, Anita Ganpati and **Aman Kumar Sharma**, “A Comparative Study of Image Compression Algorithms”, Published in International Journal Of Research in Computer Science [IJORCS], Vol. 2 Issue 5 July 2012 pp 37-42, **ISSN-2249-8257.**

8. **Aman Kumar Sharma**, Dr. Arvind Kalia and Dr. Hardeep Singh, "Taxonomy of Metrics for Assessing Software Quality", Published in International Journal of Engineering Research and Technology [IJERT], Vol. 1 Issue 6 August 2012 **ISSN-2278-0181**.
9. Madhusudan and **Aman Kumar Sharma**, "Optimizing Parsing with Multiple Pipelining", Published in International Journal of Engineering Research and Development [IJERD], Vol. 4 Issue 3 October 2012 pp 8-12, **e-ISSN-2278-067X p-ISSN 2278-800X**.
10. Madhusudan and **Aman Kumar Sharma**, "Catalogue Based Parsing", Published in International Journal of Engineering Science and Innovative Technology [IJESIT], Vol. 1 Issue 1 October 2012 pp 43-47, **ISSN-2319-5967**.
11. **Aman Kumar Sharma** and Dinesh Kumar, "User Acceptance of Desktop Based Computer Software Using UTAUT Model and Addition of New Moderators", Published in International Journal of Computer Science and Engineering Technology [IJCSET], Vol. 3 Issue 10 October 2012 pp. 509-515, **ISSN-2229-3345**.
12. **Aman Kumar Sharma**, Dr. Arvind Kalia and Dr. Hardeep Singh, "Metrics Identification for Measuring Object Oriented Software Quality", Published in International Journal of Soft Computing and Engineering [IJSCE], Vol. 2 Issue 5 November 2012 **ISSN-2231-2307**.
13. **Aman Kumar Sharma**, Dr. Arvind Kalia and Dr. Hardeep Singh, "The Software Quality Assurance Framework For CBDSD", Published in International Journal of Advanced Research in Computer Science and Software Engineering [IJARCSSE], Vol. 2 Issue 11 November 2012 pp. 161-170, **ISSN-2277-128X**.
14. **Aman Kumar Sharma** and Anita Ganpati, "Cloud Computing: An Economic Solution to Higher Education", Published in International Journal of Application or Innovation in Engineering and Management [IIAIEM], Vol. 2 Issue 3 March 2013 **ISSN-2319-4847**.
15. **Aman Kumar Sharma**, Anita Ganpati and Dinesh Kumar, "Effect of Moderators on Determinants: A Case Study of Technology Acceptance Models", Published in International Journal of Research in Computer & Communication Technology [IJRCCT], Vol. 2 Issue 5 May 2013 pp. 254-260, **ISSN-2278-5841**.
16. **Aman Kumar Sharma** and Anju Bala, "Marker Based Watershed Transformation For Image Segmentation", Published in International Journal of Computer Science Engineering and Information Technology Research [IJCSEITR], Vol. 3 Issue 4 October 2013 pp. 187-192, **ISSN-2249-6831**.
17. Swati Sen, Anita Ganpati and **Aman Kumar Sharma**, "Duplicate Bug Report Rate in OSS Projects: A Comparative Analysis", Published in International Journal of Engineering Research and Technology [IJERT], Vol. 2 Issue 10 October 2013 pp. 3509-3513, **ISSN-2278-0181**.
18. **Aman Kumar Sharma**, Anita Ganpati and Anju Bala, "Cloud Computing: A Data Security Framework", Published in International Journal of Computer Science Engineering and Information Technology Research [IJCSEITR], Vol. 3 Issue 5 December 2013 pp. 19-26, **ISSN-2249-6831**.
19. Tanuj Wala and **Aman Kumar Sharma**, "A Comparative Study of Web Service Testing Tools", Published in International Journal of Advanced Research in Computer Science and Software Engineering [IJARCSSE], Vol. 4 Issue 2 February 2014 pp. 257-261, **ISSN-2277-128X**.

20. Swati Sen, Anita Ganpati and **Aman Kumar Sharma**, “An Exploratory Study of Duplicate Bug Reports in OSS Projects”, Published in International Journal of Computer Science and Mobile Computing [IJCSMC], Vol. 3 Issue 3 March 2014 pp. 549-556, **ISSN-2320-088X**.
21. Bhawna Jyoti and **Aman Kumar Sharma**, “Test Case Suite Reduction of High Dimensional Data by Automatic Subspace Clustering”, Published in International Journal of Soft Computing and Engineering [IJSCE], Vol. 4 Issue 1 March 2014 pp. 159-162, **ISSN 2231-2307**.
22. Yogita Sharma and **Aman Kumar Sharma**, “Evaluation of the Software Requirement Tools”, Published in International Journal of Engineering Research & Technology [IJERT], Vol. 3 Issue 3 March 2014 pp. 950-954, **ISSN 2278-0181**.
23. Nishant Agnihotri and **Aman Kumar Sharma**, “Evaluating PaaS Scalability and Improving Performance Using Scalability Improvement Systems”, Published in International Journal of Research in Engineering & Technology [IJRET], Vol. 3 Issue 3 March 2014 pp. 598-602, **ISSN 2321-7308, e-ISSN 2319-1163**.
24. Anju Bala and **Aman Kumar Sharma**, “Resource Allocation in Cloud Computing: A Review”, Published in International Journal of Advanced Research in Computer Science & Software Engineering [IJARCSSE], Vol. 4 Issue 3 March 2014 pp.1054-1057, **ISSN 2277-128X**.
25. Anoop Kumar Verma and **Aman Kumar Sharma**, “Cyber Security Issues and Recommendations” Published in International Journal of Advanced Research in Computer Science & Software Engineering [IJARCSSE], Vol. 4 Issue 4 April 2014 pp. 629-634, **ISSN 2277-128X**.
26. Tanuj Wala and **Aman Kumar Sharma**, “Improvised Software Testing Tool”, Published in International Journal of Computer Science and Mobile Computing [IJCSMC], Vol. 3 Issue 9 September 2014 pp. 573-581, **ISSN 2320-088X**.
27. Tanuj Wala and **Aman Kumar Sharma**, “Enhancing A Software Testing Tool to Validate the Web Services”, Published in International Journal of Advanced Research in Computer Engineering & Technology [IJARCET], Vol. 3 Issue 10 October 2014 pp. 3417-3423, **ISSN 2278-1323**.
28. Naveen Singh Gill and **Aman Kumar Sharma**, “A Case Study of the Impact of E-banking in Remote Area”, Published in International Journal of Research Development & Innovation [IJRDI], Vol. 1 Issue 2 March 2015 pp.77-82, **ISSN-2349-1841**.
29. Shagun Bhardwaj and **Aman Kumar Sharma**, “Performance Testing Tools: A Comparative Analysis”, Published in International Journal of Engineering Technology, Management and Applied Sciences [IJETMAS], Vol. 3 Issue 4 April 2015 pp. 100-105, **ISSN-2349-4476**.
30. Shikha Sharma and **Aman Kumar Sharma**, “Empirical Analysis of Web Service Testing Tools”, Published in International Journal of Engineering Technology, Management and Applied Sciences [IJETMAS], Vol. 3 Issue 4 April 2015 pp. 116-121, **ISSN-2349-4476**.
31. Yogita Sharma and **Aman Kumar Sharma**, “Comparative Study of the Bug Tracking Tools”, Published in International Journal of Advanced Research in Computer Science and Software Engineering [IJARCSSE], Vol. 5 Issue 3 March 2015 pp. 530-536, **ISSN-2277-128X**.

32. Anish Jabble and **Aman Kumar Sharma**, “Evaluation of Website”, Published in International Journal of Advanced Research in Computer Science and Software Engineering [IJARCSSE], Vol. 5 Issue 6 June 2015 pp. 55-59, **ISSN-2277-128X**.
33. Anju Bala and **Aman Kumar Sharma** “A Comparative Study of Modified Crossover Operators”, in the 2015 Third International Conference on Image Information Processing, held on 21st -24th December 2015, at Jaypee University of Information Technology, Wagnaghat, **Solan, India**.
34. Sahil and **Aman Kumar Sharma**, “Mobility Based Analysis of Horizontal Hand Over in Wi-Fi & WIMAX”, Published in International Advanced Research Journal in Science, Engineering & Technology [IARJSET], Vol. 3 Issue 10 October 2016 pp. 28-32, **ISSN 2393-8021 ISSN [P] 2394-1588**.
35. Kalpana Devi and **Aman Kumar Sharma**, “Framework for Evaluation of Academic Website”, Published in International Journal of Computer Techniques [IJCT], Vol. 3 Issue 2 March – April 2016 pp. 234-239, **ISSN 2394-2231**.
36. Nishant Agnihotri and **Aman Kumar Sharma**, “Proposed Scalable Architecture for Analyzing Big Data in Education System”, Published in International Journal of Computer Sciences and Engineering [IJCSE], Vol. 4 Special Issue 05 July 2016 pp. 17-21, **ISSN (E) 2347-2693**.
37. Naval Kishore Dogra, **Aman Kumar Sharma** and Hardeep Singh, “Component Integration: A Challenge for Component Based Software Development”, Published in International Journal of Latest Trends in Engineering and Technology [IJLTET], Special Issue – RICSIT – 2016 pp. 37-40, **ISSN 2278-621X ISSN (P) 2319-3778**.
38. Madhusudan and **Aman Kumar Sharma**, “Affective Computing: Emotion Sensing Using 3D Images”, Published in 2016 3rd International Conference on Computing for Sustainable Global Development [INDIACom] IEEE Special Issue 2016 pp. 150-154, **ISSN 978-9-3805-4421-2 ISSN (P) 978-1-4673-9417-8**.
39. Anju Bala and **Aman Kumar Sharma**, “Color Image Segmentation Using K-means Clustering and Morphological Edge Detection Algorithm”, Published in International Journal of Latest Trends in Engineering and Technology [IJLTET], Special Issue RICSIT 2016 pp. 48-55, **ISSN (E) 2278-3621X ISSN (P) 2319-3778**.
40. Anju Bala and **Aman Kumar Sharma**, “Split and Merge: A Region Based Segmentation”, Published in International Journal of Emerging Research in Management & Technology [IJERMT], Vol. 6 Issue 8 August 2017 pp. 306-309, **ISSN 2278-9359**.
41. Neha Thakur and **Aman Kumar Sharma**, “Data Integrity Techniques in Cloud Computing: An Analysis”, Published in International Journal of Advanced Research in Computer Science & Software Engineering [IJARCSSE], Vol. 7 Issue 8 August 2017 pp. 121-125, **ISSN 2277-128 (X) ISSN (P)-2277-6451**.
42. Neha Thakur and **Aman Kumar Sharma**, “Data Integrity Check in Cloud Computing: A Framework”, Published in International Journal of Computer Engineering & Applications [IJCEA], Vol. XI Issue IX September 2017 pp. 38-45, **ISSN 2321-3469**.
43. Akriti Vyas and **Aman Kumar Sharma**, “Framework for Evaluation of E-Commerce Websites”, Published in International Journal of Scientific

- Research Engineering & Technology [IJSRET], Vol. 6 Issue 9 September 2017 pp. 906-911, **ISSN 2278-0882**.
44. Akriti Vyas and **Aman Kumar Sharma**, “Empirical Evaluation of Quality Assurance Framework for E-Commerce Websites”, Published in International Journal for Science and Advance Research in Technology [IJSART], Vol. 3 Issue 9 September 2017 pp. 522-526, **ISSN 2395-1052**.
 45. Palak Aar and **Aman Kumar Sharma**, “Analysis of Penetration Testing Tools”, Published in International Journal Advanced Research in Computer Science and Software Engineering [IJARCSSE], Vol. 7 Issue 9 September 2017 pp. 36-41, **ISSN 2277-128X**.
 46. Chetna Sharma and **Aman Kumar Sharma**, “An Elusive Study of Decision Tree Classifiers in Machine Learning”, Published in International Journal For Research in Technological Studies [IJRTS], Vol. 5 Issue 6 May 2018, **ISSN 2348-1439**.
 47. Vanika and **Aman Kumar Sharma**, “A Speculative Study on Hadoop Scheduling Algorithms”, Published in International Journal of Computer Science and Engineering [IJCSE], Vol. 6 Issue 6 June 2018, **e-ISSN 2347-2693**.
 48. Vanika and **Aman Kumar Sharma**, “A Comparative Study of Hadoop - Based Big Data Architectures”, Published in International Journal for Science and Advance Research in Technology [IJSART], Vol. 4 Issue 8 August 2018, **ISSN 2395-1052**.
 49. Chetna Sharma and **Aman Kumar Sharma**, “Improvisation of Random Forest Classifier by Feature Selection”, Published in International Journal of Research in Electronics and Computer Engineering [IJRECE], Vol. 6 Issue 3 July - Sept 2018, pp. 1193-1196, **ISSN 2348-1439**.
 50. Chetna Sharma and **Aman Kumar Sharma**, “Feature Selection: Improved Random Forest Classifier”, Published in International Journal of Research in Advent Technology [IJRAT], Vol. 6 Issue 8 August 2018, **ISSN 2321-9637**.
 51. Vanika, **Aman Kumar Sharma** and Kameshwar Thakur, “Mapreduce Scheduling for Deadline – Constraint Jobs in Heterogeneous Cloud Computing Systems”, Published in International Journal of Research and Analytical Reviews [IJRAR], Vol. 5 Issue 3 September 2018, **e-ISSN 2348-1269**.
 52. Kunal and **Aman Kumar Sharma**, “A Comparison of Network Simulation Tools”, Published in Journal of Emerging Technologies and Innovative Research [JETIR], Vol. 6 Issue 4 April 2019, **ISSN 2349-5162**.
 53. Amit Nayyer, **Aman Kumar Sharma** and Lalit Kumar Awasthi, “Laman: A Supervisor Controller Based Scalable Framework For Software Defined Networks”, Published in Computer Networks, Elsevier Journal, Vol. 159 May 2019, **ISSN 1389-1286**.
 54. Bhawna Jyoti and **Aman Kumar Sharma**, “A Perspective Study on Test Case Suite Reduction Tools of Regression Testing”, Published in International Journal of Engineering Research in Electronics and Communication Engineering [IJERECE], Vol. 6 Issue 7 July 2019, **ISSN 2394-6849**.
 55. Bhawna Jyoti and **Aman Kumar Sharma**, “A Perspective Study of Pruning Techniques in Ant Mining Classification Algorithms”, Published in International Journal of Analytical & Experimental Model Analysis [IJAEMA], Vol. XI Issue VIII August 2019, **ISSN 0886-9367**.
 56. Bhawna Jyoti and **Aman Kumar Sharma**, “A Comparative Study of Classification Rule Discovery with Ant Colony Optimization: AntMiner”,

- Published in International Journal of Computer [IJC], Vol. 34 Issue 1 pp. 119-128 August 2019, **ISSN 2307-4523**.
57. Amit Nayyer, **Aman Kumar Sharma** and Lalit Kumar Awasthi, "A Survey: Parallelism Based Optimization Issues and Approaches for Scalability in Software Defined Networking", Published in International Journal of Management Technology & Engineering (UGC), Vol. IX Issue V pp. 5925-5930 May 2019, DOI 16.10089.IJMTE.2019.V915.19.28684 **ISSN 2249-7455**.
 58. Rajat Sharma and **Aman Kumar Sharma**, "Manet: Evaluation of Optimum Routing Protocol", Published in International Journal of Scientific and Research Publications [IJSRP], Vol. 10 Issue 4 pp. 195-203 April 2020, **ISSN 2250-3153**.
 59. Rohit Verma and **Aman Kumar Sharma**, "Cryptography: Avalanche Effect of AES and RSA", Published in International Journal of Scientific and Research Publications [IJSRP], Vol. 10 Issue 4 pp. 119-125 April 2020, **ISSN 2250-3153**.
 60. Rajat Sharma and **Aman Kumar Sharma**, "A Framework on Energy Efficient Routing Protocol in WBAN", Published in International Journal of Current Research [IJCR], Vol. 12 Issue 9 pp. 13455-13462 September 2020, **ISSN 0975-833X**.
 61. Rohit Verma and **Aman Kumar Sharma**, "Simulation Based Comparative Analysis of Symmetric Algorithms", Published in International Journal of Advanced Research in Computer Science [IJARCS], Vol. 11 Issue 5 pp. 64-68 September-October 2020, **ISSN 0976-5697**.
 62. Himanshu Thakur and **Aman Kumar Sharma**, "Supervised Machine Learning Classifiers: Computation of Best Result of Classification Accuracy", Published in International Journal of Computer Trends & Technology [IJCTT], Vol. 68 Issue 10 pp. 1-8 October 2020, **ISSN 2231-2803**.
 63. Anju Bala and **Aman Kumar Sharma** "A Review of Challenges in Clustering Techniques for Image Segmentation", Published in International Journal for Research in Applied Science and Engineering Technology [IJRASET], Vol. 8, Issue 12 December 2020 pp. 496–502 **ISSN 2321-9653** doi: 10.22214/IJRASET.2020.32534.
 64. Nishant Agnihotri and **Aman Kumar Sharma**, "AES Based Enhanced Technique with Reduced Time Complexity", Published in Turkish Journal of Computer & Mathematics Education [TURCOMAT], Vol. 12 Issue 6 May 2021 pp. 3525-3534, **e-ISSN 1309-4653**.
 65. Amit Nayyer, **Aman Kumar Sharma** and Lalit Kumar Awasthi, "Learning Based Hybrid Routing For Scalability In Software Defined Networks", Published in Computer Networks (Elsevier Journal), Vol. 198 Issue 108362 October 2021, <https://doi.org/10.1016/j.comnet.2021.108362>. **ISSN 1389-1286**.
 66. Shivam Sharma and **Aman Kumar Sharma**, "Generative Adversarial Networks in Security and Data Privacy Sector: A Survey", Published in Design Engineering, Vol. 202 Issue 7 October 2021 pp. 15880-15895, doi 10.5281/zenodo.5955836. **ISSN 0011-9342**.
 67. Lakshi Dhiman and **Aman Kumar Sharma**, "Comparative Analysis of Performance of Routing Protocols in MANET'S: A Review", Published in International Journal of Scientific and Research Publications [IJSRP], Vol. 11 Issue 10 October 2021 **ISSN 2250-3153**.
 68. Shivam Sharma and **Aman Kumar Sharma**, "A Comparative Study on Cross Platform Development Tools", Published in Design Engineering, Vol. 202

- Issue 8 October 2021 pp. 11112-11127, **Scopus** Indexed Q4, Ei. id www.scopus.com/sourceid/28687. **ISSN 0011-9342**.
69. Kalpana Devi and **Aman Kumar Sharma**, “A Comparative Review of Recent Architectures of Convolutional Neural Networks”, Published in International Journal of Science and Research [IJSR], Vol. 11 Issue 7 July 2022 pp. 1263-1270 doi 10.21275/SR22717131601 **ISSN 2319-7064**.
 70. Bhawna Jyoti and **Aman Kumar Sharma**, “An Enhanced Whale Optimisation Algorithm for Test Case Suite Selection: Ambha_WOA”, Published in Special USISUGDYMAS/ SPECIAL EDUCATION 2022, Vol. 1 No. 43 August 2022 pp. 4356-4372, **Scopus** **ISSN 1392-5369**.
 71. Bhawna Jyoti and **Aman Kumar Sharma**, “Test Case Prioritization With Enhanced Metaheuristic Algorithm: Ambha_GWO”, Published in Stochastic Modeling and Applications, Vol. 26 Issue 3 January-June Special Issue 2022 Part 10 pp. 377-386 **ISSN 0972-3641**.
 72. Bhawna Jyoti and **Aman Kumar Sharma**, “Ambha: A Metaheuristic Framework for Test Case Suite Optimization”, Published in Special USIS UGDYMAS/ SPECIAL EDUCATION 2022, Vol. 1 No. 43 August 2022 pp. 7559-7574 **Scopus** **ISSN 1392-5369**.
 73. Nishant Agnihotri and **Aman Kumar Sharma**, “SDP: A Quicker Approach Based on Optimal Lattice Anonymization with Binary Tree for Privacy Preserved Data Publication”, Published in Anvesak Vol. 52 Issue 1(iv) 2022 **UGC Care List 1**.
 74. Bhumika Sood and **Aman Kumar Sharma**, “Comparison Analysis of Different Greedy Algorithms in Shortest Path Optimization”, Published in International Journal for Science and Advance Research in Technology [IJSART], Vol. 8 Issue 10 October 2022 **ISSN 2395-1052**.
 75. Bhumika Sood and **Aman Kumar Sharma**, “Performance Analysis on Dijkstra’s and Bellman – Fords Algorithm in Shortest Path Optimization”, Published in International Journal of Research and Analytical Reviews [IJRAR], Vol. 9 Issue 4 November 2022 UGC approved 43602 **e-ISSN 2348-1269 p-ISSN 2349-5138**.
 76. Vaishali Kanwar and **Aman Kumar Sharma**, “Performance Analysis of Elliptic Curve Cryptography”, Published in International Journal of Research and Analytical Reviews [IJRAR], Vol. 9 Issue 4 November 2022 UGC approved 43602 **e-ISSN 2348-1269 p-ISSN 2349-5138**.
 77. Vaishali Kanwar and **Aman Kumar Sharma**, “A Comprehensive Literature Review of Asymmetric Key Cryptography Algorithms”, Published in International Journal for Science and Advance Research in Technology [IJSART], Vol. 8 Issue 11 November 2022 pp. 17-23 **ISSN 2395-1052**.
 78. Anju Bala and **Aman Kumar Sharma**, “FCM-based Image Segmentation Using Bio-Inspired Optimization Techniques: A Comprehensive Study”, Published in Special USIS UGDYMAS/ SPECIAL EDUCATION 2023, Vol. 1 Issue 44 2023 pp. 514-529 **Scopus** Indexed **ISSN 1392-5369**.
 79. Ishant and **Aman Kumar Sharma**, “Anti – Phishing Tools: A Thorough Comparison of Features and Performance”, Published in International Journal for Research in Applied Science and Engineering Technology [IJRASET], Vol. 11 Issue V May 2023 **ISSN 2321-9653**.
 80. Anju Bala and **Aman Kumar Sharma**, “A New Novel Gaussian Kernel-Induced Particle Swarm Optimization Based Spatial FCM Algorithm for

- Image Segmentation”, Published in Journal of Harbin Engineering University, Vol. 44 Issue 7 July 2023 pp. 77-86 **Scopus** Indexed ISSN 1006-7043.
81. Anju Bala and **Aman Kumar Sharma**, “A Review on Various Thresholding Technique for Image Segmentation”, Published in International Journal of Advances in Engineering and Management (IJAEM), Vol. 5 Issue 7 July 2023 pp. 380-390 ISSN 2395-5252. doi: 10.35629/5252-0507380390.
 82. Anju Bala and **Aman Kumar Sharma**, “Image Segmentation:FCM Cluster Center Initialization For Colored Images”, Published in Semiconductor Optoelectronics”, Vol. 42 Issue 2 July 2023 pp. 01-12 **SCOPUS** Indexed ISSN 1001-5868.

National Journals

83. **Aman Kumar Sharma**, “Cloud Computing in Higher Education”, Published in Himachal Pradesh University A Bi-annual Research Journal, Vol. 1 Issue 2 March 2012 pp. 115-119.
84. Anita Ganpati and **Aman Kumar Sharma** “Violence Against Women (VAW) in Digital Space: Challenges and Opportunities”, Published in the Souvenir of National Seminar on Violence Against Women, in Department of Laws, Himachal Pradesh University and Indian Council of Social Science Research (ICSSR), Shimla, India.
85. **Aman Kumar Sharma** and Anita Ganpati, “PSPP: Free Software for Statistical Analysis”, Published in CSI Communications, Vol. 38 Issue 7 October 2014 pp. 23-26, **ISSN 0970-647X**.
86. Kalpana Devi and **Aman Kumar Sharma**, “Implementation of a Framework for Website Quality Evaluation: Himachal Pradesh University Website”, Published in Indian Journal of Science and Technology [IJST], Vol. 9 Issue 40 October 2016 pp. 1-5, **ISSN 0974-5645 ISSN (P) 0974-6846**.
87. Bhawna Jyoti and **Aman Kumar Sharma**, “A Perspective View of Different Techniques Used in Different Phases of Load Testing”, Published in Indian Journal of Science and Technology [IJST], Vol. 9 Issue 41 November 2016 pp. 1-8, **ISSN 0974-5645 ISSN (P) 0974-6846**.
88. Himanshu Thakur and **Aman Kumar Sharma**, “Sentiment Analysis: A Simulation Based Study of Supervised Learning Algorithms”, Published in Mukta Shabd Journal UGC Care Group – I, Vol. IX Issue V pp. 241-250 May 2020, **ISSN 2347-3150**.
89. Rajat Sharma and **Aman Kumar Sharma**, “Reduced Energy Based Wireless Sensor Body Area Network”, Published in Mukta Shabd Journal UGC Care Group – I, Vol. IX Issue VI pp. 2973-2980 June 2020, **ISSN 2347-3150**.
90. Rohit Verma and **Aman Kumar Sharma**, “Cryptography: A Comparative Analysis of AES and RSA Algorithms”, Published in Mukta Shabd Journal UGC Care Group – I, Vol. IX Issue VI pp. 4705-4716 June 2020, **ISSN 2347-3150**.
91. Shivam and **Aman Kumar Sharma**, “Power Load Prediction for Electric Vehicles Charging in Vehicles –to- Grid Using Deep Learning Ensemble”, Published in Journal of Maharaja Sayajirao University of Baroda, UGC Care Group – I, Vol. 55 Issue 2 July 2021, **ISSN 0025-0422**.

International Conferences (Attended Abroad)

92. Anita Ganpati, **Aman Kumar Sharma**, Dr. Arvind Kalia and Dr. Hardeep Singh, "Relationship between Line of Code and complexity in Open Source Software", Published in the proceeding of International Conference on Advance Computer Theory and Engineering (ICACTE) 2011, ASME press, pp. 801-804, Dubai, U.A.E. December 2011, **ISBN 978-0-7918-5993-3**.
93. **Presented a paper** on "A Comparative Study of Data Mining Methods", in the International Conference on Information and Multimedia Technology (ICIMT) held on December 28-30, 2011, at **Dubai, U.A.E.**
94. **Chaired a session** of the International Conference on Information and Multimedia Technology (ICIMT) held on December 28-30, 2011, at **Dubai, U.A.E.**
95. **Presented a paper** on "An Analysis of Data Warehousing Techniques", in the International Conference in Global Congress On Science and Engineering (GCSE 2011) held on December 28-30, 2011 at **Dubai, U.A.E.**
96. **Presented a paper** on "Empirical Evaluation of Requirements Elicitation Techniques", in the International Conference on Management and Information Technology (ICMIT) held on February 20, 2016, at **Abu Dhabi, U.A.E.**

International Conferences (Attended in India)

97. **Aman Kumar Sharma**, Anita Ganpati and Surbhi Gandhi, "A Routing Model for Managing Large Adhoc Network Using Segments", Published in the Conference Proceeding of International Conference On Issues and Challenges in Networking, Intelligence and Computing Technologies, **ISBN-978-93-81126-21-1** pp. 671-677, 2nd & 3rd September, 2011, Ghaziabad.
98. **Aman Kumar Sharma**, Anita Ganpati and Kumari Shailja, "Empirical Study Of Software Effort Estimation Models", Published in the Conference proceedings of International Conference on Advances in Modeling, Optimization and Computing (AMOC - 2011), December 5 - 7, 2011, IIT Roorkee.
99. Amit Nayyer, **Aman Kumar Sharma** and Lalit Kumar Awasthi, "A Study of Performance Evaluators for Software Defined Networking", Published in the Conference Proceedings of 2018 First International Conference on Secure Cyber Computing and Communication (ICSCCC), December 15-17 2018, NIT Jalandhar, India DOI 10.1109/ICSCCC.2018.8703211.
100. Nishant Agnihotri and **Aman Kumar Sharma**, "Comparative Analysis of Different Symmetric Encryption Techniques Based on Computation Time", Published in Proceedings of 2020 Sixth International Conference on Parallel, Distributed & Grid Computing (PDGC), IEEE explore, 6-8 November 2020, Wagnaghat, India pp. 6-9, **ISSN 978-1-7281-7132-6** doi. 10.1109/PDGC50313.2020.9315848.
101. **Attended** The First International Conference on Parallel, Distributed and Grid Computing (PDGC) 2010, held on 28-30 October 2010, at Jaypee University of Information Technology, Wagnaghat, **Solan, India.**
102. **Presented a paper** on "Big Data Analysis and Its Need For Effective E-Governance", in the International Conference on Emerging Trends of engineering, Science, Management and its Applications [ICETESMA-15], held on 1st March 2015, at Jawahar Nehru University [JNU], New Delhi, India.
103. **Presented a paper** on "Proposed Algorithm for Effective Real Time Stream Analysis in Big Data", in the 2015 Third International Conference on Image

- Information Processing, held on 21st -24th December 2015, at Jaypee University of Information Technology, Wagnaghat, **Solan**, India.
104. **Chaired a session** of the International Conference on Computing for Sustainable Global Development held on March 17-18, 2016, at BVICAM, **New Delhi**, India.
 105. **Organizing Secretary** in the International Conference on Recent Innovations in Computer Science and Information Technology, held on 23rd May 2016, at UIIT & Computer Science Department Himachal Pradesh University, Shimla, India.
 106. **Chaired a session** in the 4th International Conference on Computing for Sustainable Global Development: 11th INDIACOM 2017 an IEEE conference held on March 01-03, 2017, at BVICAM, **New Delhi**, India.
 107. **Chaired a session** in the 5th International Conference on Computing for Sustainable Global Development: 12th INDIACOM 2018 an IEEE conference held on March 14-16, 2018, at BVICAM, **New Delhi**, India.
 108. **Presented a paper** on “Issues in Software Defined Networking”, in the 2018 2nd International Conference on Communication, Computing and Networking, (ICCCN-2018) held on 29th - 30th March 2018, at National Institute of Technical Teachers Training and Research, **Chandigarh**, India.
 109. **Presented a paper** on "Image Segmentation: Automatic Cluster Number Generation in K-Means," in the 2019 Fifth International Conference on Image Information Processing (ICIIP), **Shimla**, India, 2019, pp. 199-204, doi: 10.1109/ICIIP47207.2019.8985826.

National Conference Attended (India)

110. **Aman Kumar Sharma**, Anita Ganpati and Shalini, “Expanding Dimensions of Open Source Software in Indian IT Industry”, Published in the National Conference on Emerging Trends in Computing and Communication (ETCC) 2008 pp. 427-430, December 2008, NIT Hamirpur.
111. **Presented a paper** on “Empirical Validation of Quality for OSS Using CK Metric Suite”, in the National Conference on Recent Trends in Information Technology and its Applications in Industry, held on 25-26 September 2011, at Bhaderwah Campus, University of Jammu, India.
112. **Presented a paper** on “Cloud Computing: The User’s Perspective”, in the 6th National Conference on Computing for Nation Development 2012 India Com 2012 held on 23-24 February 2012, at Bharati Vidyapeeth Institute of Computer Applications and Management, New Delhi, India.
113. **Presented a paper** on “Software Quality Evaluation Using MOOD Metrics: A Case Study of OSS”, in the National Seminar on Application, Tools and Techniques of Ubiquitous Computing in Building Intelligent Space (World) held on 17-18 September 2012, at Hindu Girls College, Jagadhri, India.
114. **Presented a paper** on “Violence Against Women (VAW) in Digital Space: Challenges and Opportunities”, in the National Seminar on Violence Against Women held on 21-22 August 2013, at Department of Laws, Himachal Pradesh University and Indian Council of Social Science Research (ICSSR), Shimla, India.
115. **Chaired a session** of the National Seminar on Web Based Technologies: Present & The Future held on April 30th and May 1st 2015, at Department of Computer Science, St. Bede’s College, Shimla, India.

116. **Presented a paper** on “An Assessment of Vulnerable Detection Source Code Tools”, in the 50th Golden Jubilee Annual Convention CSI 2015 held on 02-05 December 2015, at Bharati Vidyapeeth Institute of Computer Applications and Management, New Delhi, India.
117. **Chaired a session** of the 50th Golden Jubilee Annual Convention CSI 2015 held on 02-05 December 2015, at Bharati Vidyapeeth Institute of Computer Applications and Management, New Delhi, India.
118. **Presented a paper** on “A Study Emphasis on Bridging Gap Between Software Engineering and Data Mining Approaches”, in the National Seminar on Data Mining & Knowledge Discovery held on 02nd June 2016, at Bahra University, Shimla, India.
119. **Chaired a session** of the 2nd Himachal Pradesh Science Congress (HPSC) 2017-18 National Conference held on November 20th and 21st 2017, Organised by HIMachal Pradesh Council for Scientific Technology & Environment (HIMCOSTE) at Shimla, India.
120. **Chaired a session** of the National Conference on Reaching the Unreached Through Science & Technology 2018 held on March 30th and 31st 2018, Organised by Indian Science Congress Association (ISCA) Shimla Chapter at H.P. University, Shimla, India.
121. **Chaired a session** of the National Conference on Emerging Trends in Quality Assurance And Enhancement in Software Development held on 6-7 March 2019, Organized by Department of Computer Science, & IT & Directorate of Internal Quality Assurance University of Jammu at Jammu University, India.
122. **Chaired a session** of the National Conference on Future India: Science And Technology held on 22nd May 2019, Organized by Indian Science Congress Association Shimla Chapter (ISCA) at H.P. University Auditorium.

Seminars/Workshops Attended

1. Attended an **Orientation Program** conducted by Academic Staff College, Himachal Pradesh University, Shimla, in May 2002.
2. Attended a **Refresher Course** on “Human Values and Indian Ethos” conducted by Academic Staff College, Himachal Pradesh University, Shimla, in April 2003.
3. Attended a **Refresher Course** on “Information Technology” conducted by Academic Staff College, Calicut University, Calicut, in January 2006.
4. Attended **National Seminar** on “Strategy for Sustainable Development of Himachal Pradesh with special emphasis on Industry, Tourism, Biotechnology, and Information Technology”, conducted by Confederation of Indian Industry (CII) & HP University, Shimla in November 2006.
5. Attended a **Refresher Course** on “IT Awareness” conducted by Academic Staff College, Himachal Pradesh University, Shimla, in April 2008.
6. Attended a **Short Term Programme** on “Internet Technologies” conducted by National Institute of Technical Teachers’ Training and Research (NITTTR), Chandigarh, in March 2011.
7. Attended a **Short Term Programme** on “Network Operating System” conducted by National Institute of Technical Teachers’ Training and Research (NITTTR), Chandigarh, in April 2011.
8. Attended a **Short Term Programme** on “Open Source Technologies Through ICT” conducted by National Institute of Technical Teachers’ Training and Research (NITTTR), Chandigarh, in July 2011.

9. Attended a **Short Term Course** on “Latest Trends in Software Technology for Teaching Faculty” conducted by Academic Staff College, Guru Nanak Dev University (GNDU), Amritsar, from 3rd January 2013 to 5th January 2013.
10. **Attended** International Peace conference on “Building Nations of Peace: Our shared Responsibility” on 17th September 2014 at H.P. University, Shimla.
11. Attended **One week Faculty Development Programme** on “Emerging Trends in Computer Science and IT” conducted by Bharati Vidyapeeth Institute of Computer Applications and Management (BVICAM), New Delhi, from 23rd July 2018 to 28th July 2018.

Additional Information

- ◆ **In-charge** of IT Laboratory (Lab-II) of the Computer Science Department from 2003 to August 2011.
- ◆ Member Grievances Redressal Committee ICDEOL, Himachal Pradesh University, Shimla since September 2014.
- ◆ **Written Lessons** for MCA, BCA, B.Com, PGDCA, PGDIT for International Centre for Distance Education Open Learning H.P. University.
- ◆ External Examiner & Paper Setter for various Universities including H.P. University.
- ◆ **Supervised 32 dissertation** works at Master of Technology (M. Tech.) level.
- ◆ **Guided** 88 software development projects at Master in Computer Applications (MCA) level.
- ◆ **Guided** 80 software development projects at Post Graduate Diploma in Computer Application (PGDCA) level.
- ◆ **Evaluated** Synopsis/Thesis of IGNOU at undergraduate and postgraduate level.
- ◆ Member of Board of Studies, (PG & UG) in Computer Science, H.P. University.
- ◆ Member of Faculty of Physical Sciences, H.P. University, Shimla since 25th April 2019.
- ◆ Acted as Member Coordinator for the NAAC accreditation team.
- ◆ Member of Academic Council, H.P. University, Shimla.
- ◆ Acted as subject expert in various **selection committees**.

Personal Details

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References:

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2. **Ms. Satwant Atwal Trivedi (IPS)**,
Additional Director General of Police
(DGP),
HP Government,
Shimla.
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05th August, 2023

-sd-
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