Dr. AMAN TYAGI
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Phone no.: - +919557602772
Google Scholar: https://scholar.google.co.in/citations?user=z_vji-cAAAAJ&hl=en
Publons: https://publons.com/researcher/1474123/aman-tyagi/

CAREER OBJECTIVE

To contribute best effort towards the attainment of organizational objectives.

EDUCATION

2012-2019	**Dayalbagh Educational Institute** (Deemed University), Agra	
	Ph. D. in Computer science	
	Topic: Healthcare Engineering: An innovative approach for better	
	delivery of asthma care services	Completed
2010-2012	**Dayalbagh Educational Institute** (Deemed University), Agra	
	M. Tech in COMPUTER SCIENCE	72.60%
2009-2010	**Jaypee Institute of Information Technology** (Deemed University), Noida	
	Post Graduate Diploma in MICROELECTRONIC SYSTEM AND EMBEDDED TECHNOLOGY	61.00%
2006-2009	**Gurukula Kangri Vishwavidyalaya** (Deemed University), Haridwar	
	B. Tech in ELECTRICAL Engineering	76.06%
2003- 2006	**Dayalbagh Educational Institute** (Deemed University), Agra	
	Diploma in Engineering, ELECTRICAL	68.60%

AWARDS AND ACHIEVEMENTS

- Qualified **Graduate Aptitude Test in Engineering** (GATE) 2012 with 91.4 percentile in Computer Science and Information Technology.
- Awarded Junior Research Fellowship under a UGC scheme entitled "**UGC Research Fellowship in Sciences for Meritorious Students**" (10.5.2013 to 9.5.2015).
- Awarded Senior Research Fellowship under a UGC scheme entitled "**UGC Research Fellowship in Sciences for Meritorious Students**" from (10.5.2015 to 7.3.2018).
- Developed fuzzy based system that measures the level of control of asthmatic patient and also find whether patient is asthmatic or non-asthmatic using decision tree. The work is appreciated by **Science News and Inderscience Research Spot** in December 1, 2014 and paper is listed at first place.

ACADEMIC/TEACHING EXPERIENCE

12 Oct 2020 – Present	Working as an **Assistant Professor** in the Department of **Computer Science & Engineering (CSE)** in **Gurukula Kangri (Deemed to be University),** Haridwar, Uttarakhand, Pin: 249404, India.
25 July 2019 – 19 Dec. 2019	Worked as an **Assistant Professor** in the Faculty of **Computer Application** in **Himalayan Garhwal University,** Dhaid Gaon, Block pokhra, District Pauri Garhwal, Uttarakhand, Pin: 246169, India.
23 July 2018 – 16 July 2019	Worked as an **Assistant Professor** in the Department of **Computer Science** in **Shri Rawatpura Sarkar Institute of Technology & Science,** Datia (M.P.), India.
July 2014 – Dec. 2016	Taught MS Office for Diploma in engineering students at **Dayalbagh Educational Institute**, Dayalbagh, Agra (U.P.), Pin:282005, India.

REVIEWER

- Reviewed papers of IEEE International Conference on Communication Networks (ICCN) held at ITM, Gwalior in November 2015.
- Reviewed papers of 1st IEEE International Conference on Emerging Technologies & Innovation for Sustainability organized by Noida Institute of Engineering & Technology, Greater Noida on 20th-21th December, 2024.
- Reviewer for "Journal of Medical Systems" (**IMPECT FACTOR -4.460**), "International Journal of Information Technology & Decision Making" (**IMPECT FACTOR -2.220**), "Journal of Infrastructure Policy and Development" (**IMPECT FACTOR -0.7**), "Journal of Software: Evolution and Process" (**IMPECT FACTOR -1.7**) and "International Journal of Healthcare Management" (**IMPECT FACTOR -2.1**).
- Examined Ph. D. Thesis of Dayalbagh Educational Institute, Dayalbagh, Agra (U.P.).

PUBLICATIONS

Tyagi, A., & Singh, P. (2013). Applying Kriging Approach on Pollution Data Using GIS Software. International journal of Environmental Engineering and Management, 4(3), 185-190.

Tyagi, A., & Singh, P. (2014). Asthma diagnosis and level of control using decision tree and Fuzzy system. International journal of Biomedical Engineering and Technology, Vol. 16, No. 2, pp. 169-181. **(IMPECT FACTOR -1.1) (ESCI)**

Tyagi, A., & Singh, P. (2015). ACS: Asthma Care Services with the help of Case Base Reasoning Technique. Procedia Computer Science, 48, 561-567. **(SCOPUS INDEXED)**

Tyagi, A., & Singh, P. (2019). Health Information System. In *Healthcare Policy and Reform: Concepts, Methodologies, Tools, and Applications* (pp. 308-317). IGI Global. **(SCOPUS INDEXED)** (INVITED BOOK CHAPTER)

Dev, V., Tyagi, A. & Singh, P. (2017). Tourism Demand Forecasting and Management. International Journal of Business and Management Invention, Vol. 6, No. 2, pp. 01-09.

Tyagi, A., & Singh, P. (2019). Hospital performance management: a multi-criteria decision-making approach. *International Journal of Healthcare Management*, *12*(4), 286-291. **(IMPECT FACTOR -2.1) (ESCI)**

Tyagi, A. (2021). Healthcare-Internet of Things and Its Components: Technologies, Benefits, Algorithms, Security, and Challenges. In Optimizing Health Monitoring Systems with Wireless Technology (pp. 258-277). IGI Global. **(SCOPUS INDEXED)** (INVITED BOOK CHAPTER)

Tyagi, A. (2022). Automatic computerised mobile purchase system. *International Journal of Business Competition and Growth (IJBCG), 8* (1/2),48-63. **(UGC CARE)**

Tyagi, A. and Khanduja, N. (2025) 'Automatic laptop purchase system based on case base reasoning technique', *Int. J. Business Forecasting and Marketing Intelligence*, Vol. 10, No. 2, pp.165–184.

PATENTS

Dr. Shilpa B Sahare, Dr. Satish Kumar P, Dr. Pallavi Singh, Dr. Aman Tyagi, Prashant D Kamble (2025), "AI-BASED OXYGEN CONCENTRATOR" Design Number: 424310-001, Published 2025.

INTERNATIONAL AND NATIONAL CONFERENCES/FESTIVAL ATTENDED/ PAPER PRESENTED

Nov.-Dec. 2007	Paper presented in **Abhivyakti in the "JNANAGNI'07" (NATIONAL TECHNICAL FESTIVAL)** & secured finalist position in the event, organize by TCS (Tata Consultancy Services) and Gurukula Kangri Vishwavidyalaya (Deemed University), Haridwar.
March 2011	Participated in **"National Conference on Recent Advances in Physics & Technologies"**, Organized by Department of Physics, Agra College, Agra and Presented paper on "Implementation of RSA Algorithm".
October 2013	Participated in "2nd **international conference on agriculture, Food Technologies and Environment-New Approaches (AFTENA - 2013)"** organized by Krishi Sanskriti, Jawaharlal Nehru University (J.N.U.), New Delhi-110067 and presented a research paper entitled "Applying kriging approach on pollution Data using GIS software".
December 2014	Participated in "2nd **international conference on intelligent computing, communication & convergence (ICCC-2014)**" organized by IIMT RESEARCH NETWORK, BHUBANESWAR, ODISHA, INDIA and presented a research paper entitled "ACS: Asthma Care Services with the help of Case Base Reasoning Technique". **(SCOPUS INDEXED)**
October 2015	Attended "Two-Day conference on Value-base Science, Engineering and Management Quality Education: Trends and Policy", VALEDU 2015.
July 2016	Tyagi, A. "Case base reasoning in ACS (Asthma Care Services)" **4th Asia-Pacific Global summit & expo on healthcare**, Brisbane, Australia and abstract published in Health Care Current review, 2016, Volume 4, Issue 2 (suppl). **(INVITED AS A SPEAKER)**
February 2017	Participated in international conference on "CONTEMPORARY ISSUES IN COMPUTER SCIENCE, APPLICATIONS AND TECHNOLOGY" organized by Anjuman Khairul Islam's POONA COLLEGE of Arts, Science & Commerce, Camp, Pune and presented a research paper entitled "Mining Association in Tourism: A Market Basket Analysis" on 18 February, 2017.
December 2020	Participated in "See The Future Conference 2020 with keynote speaker **Novel Laureate Richard J. Roberts"** organised by enago**.**
Sep. 2021	Attended the conference on Case Base Resioning, held in Salamanca (Spain) from 13th -16th September, 2021.
Nov. 2021	Participated in "See The Future Conference 2021" with keynote speaker **Nobel Laureate Dr. Randy Schekman.**

19 March 2023 Presented a paper entitled "Application of IOMT for Smart Healthcare Systems" in "National Conference on Science and Technology for All (NCSTA) " organized by The Indian Science Congress Association: Haridwar Chapter.

29 March 2023 Presented a paper entitled "Vedic IOMT based treatment of Asthma" in "National conference on Knowledge, Cultural Traditions & Practices of India" organized by GK(DU), Haridwar.

23 - 25 Dec.2023 Presented a paper entitled "Vedic trauma detection of COVID-19 patient" in "International Conference on Veda Trauma detection of COVID -19 patient" organized by GK(DU), Haridwar.

PARTICIPATION IN SEMINAR/WEBINAR/WORKSHOP

March 2011 Attended the UGC-SAP (**University Grants Commission – Special Assistance Programme**) seminar on "The National Unique Id Project: Prospects and Challenges" (AADHAAR), Organise by Dayalbagh Educational Institute (DEEMED UNIVERSITY), Agra.

April 2011 Attended the UGC-SAP (**University Grants Commission – Special Assistance Programme**) seminar on "Soft Computing Applications in Robotics", Organise by Dayalbagh Educational Institute (DEEMED UNIVERSITY), Agra.

April 2012 Attended the UGC-SAP (**University Grants Commission – Special Assistance Programme**) seminar on "Bio Inspired Systems", Organise by Dayalbagh Educational Institute (DEEMED UNIVERSITY), Agra.

March 2013 Attended the UGC-SAP (**University Grants Commission – Special Assistance Programme**) seminar on "Biometrics: Technology for Human Recognition" by Prof. Anil K. Jain, organise by Dayalbagh Educational Institute, Agra under the general agreement for academic cooperation with Michigan State University and UGC SAP invited lecture Series.

March 2014 Attended the UGC-SAP (**University Grants Commission – Special Assistance Programme**) seminar on "Nano-Photonics and Bio-Inspired system", Organise by Dayalbagh Educational Institute (DEEMED UNIVERSITY), Agra.

Nov 2020 Attended webinar on "Conduct proctored tests" organised by MasterSoft ERP Solutions Pvt. Ltd. Nagpur.

Jan 2021 Participated in the workshop on "NPTEL Awareness and Registration" organised by Gurukula Kangri University, Haridwar.

Feb 2021 Participated in the webinar on "Future of STI: Impacts on Education, Skills and Work" organised by Indian Science Congress Association: Haridwar Chapter in association with FET, GKV Innovation Cell, Gurukula Kangri, Haridwar.

April 2021 Participated in national webinar on "National Education Policy-NEP 2020: Opportunities, Challenges & Its Effective Implementation" organised by FET, GKV, Haridwar.

Aug. 2021 Attended a workshop on "Editorial perspectives on science & technology journals" organized by Taylor and Francis Group.

Sep. 2021 Participated in the launching 'Review Assistant': An AI-powered tool for peer reviewers by Raxter.io and Enago.

Sep. 2021 Attended a webinar on "Excellence in peer review: How to be an effective peer reviewer" organized by Peer Review Systems webinars (Taylor and Francis Reviewer Training Network).

Oct. 2021 Participated in the common English translation mistakes in academic writing – Tips, Trickes, and Tools! By Ulatus and Enago.

Dec. 2021 Attended a workshop on "Avoiding rejection: how to successfully navigate the publishing process" organized by Taylor and Francis Group.

Feb. 2022 Attended a webinar on "Publishing Ethis" organized by Taylor and Francis Group.

June 2022 Participated in the launching 'How to Boost Citations-Tips for Researchers' organized by The Electrochemical Society and Enago.

Aug. 2022 Successfully completed "Teach forward: Best strategies for hybrid, remote, and blended learning".

Aug. 2022 Successfully completed "Enable student success with blended learning solutions in higher education".

Sep. 2022 Participated in the 'Behind the Scenes with Editors-in-Chief: A Live Interaction Session on Research Writing, Journal Review, and Handling Rejection' organized by Enago.

Jan 2023 Participated in one day workshop on "Teaching and learning methods in Science & Technology" organized by Faculty of Engineering & Technology, Gurukula Kangri (Deemed to be University).

Feb. 2023 Participated in "The National Workshop on Research and Innovation by Researchers for researchers organized by department of computer Science and Engineering Faculty of Engineering & Technology, Gurukula Kangri (Deemed to be University), Haridwar in joint collaboration with IIC Cell GKDU, G20 events committee & NDLI Club.

May 2023	Participated in the "Role of ChatGPT & Other AI Tools in Academic Publishing: Opportunity or a Threat?" by Enago.
Aug. 2023	Participated in the SPSR webinar on "Solid Shall be Alternate Source to Replace Harmful Organic Solvent in Future (Mixed Solvency Concept)" organized by Society of Pharmaceutical Sciences and Research (SPSR).
Aug. 2023	Participated in the distinguish Lecture on "Compacting Models: The Art of Compact Modeling" organized by IEEE MADHYA PRADESH SECTION EDS CHAPTER.
Oct. 2023	Participated in the 29th SPSR webinar on "Harnessing nanotechnology: Biosynthesis and characterization of silver nanoparticles and their biomedical and agricultural advancements" organized by Society of Pharmaceutical Sciences and Research (SPSR).
Oct. 2023	Participated in the SPSR webinar on "Attaining Intelligence to move towards Artificial Intelligence: The Pharma Perspective" organized by Society of Pharmaceutical Sciences and Research (SPSR).
May 2024	Attended the session "Practical Resources for Future TechBiz Leaders-O'Reilly for Higher Education" organized Clarivate.

CERTIFICATE COURSES

June 2003	**Dayalbagh Educational Institute** (DEEMED UNIVERSITY), Agra
	Successfully completed 23 days introductory course on computers, consisting of modules:
	1. Introduction to computers, 2. Microsoft Office, 3. Programming in BASIC
2010-2011	Successfully completed and scored B- grade in an additional course "**CSM 011: Media Processing and Communication**" floated jointly under a Memorandum of understanding signed between Dayalbagh Educational institute and IIT, Delhi.
2010-2011	Successfully completed and scored B grade in an additional course "**CSM 997: Computer Networking Minor Project**" floated jointly under a Memorandum of understanding signed between Dayalbagh Educational institute and University of Maryland, USA.
Jan 2013	Successfully completed and scored B grade in an additional course "**10 Day Training Program on Research Methodology**" organized by Department of sociology & political Science, Dayalbagh Educational Institute (DEEMED UNIVERSITY), Agra.
Sept. 2023	Successfully completed a course "**Getting Started with Enterprise Data Science**" conducted by IBM.
Sept. 2023	Successfully completed a course "**Journey to Cloud: Envisioning Your Solution**" conducted by IBM.

OTHER CIRTIFICATES/ACTIVITIES

November 2020	Attended in "AICTE Online Student Induction Program- Esip 2020 at FET, GKV, Haridwar.
December 2020	Acted as member of organizing committee of "Online Student Induction Program", FET, GKV, Haridwar.
February 2021	Awarded a certificate for "An Insight into Journal Editorial Processes" organised by enago.
March 2021	Awarded a certificate for "How to publish open access and succeed with your publication" by Taylor and Francis Group.
April 2021	Awarded a certificate for "Excellence in Peer Review: How to be an effective peer reviewer" by Taylor and Francis Reviewer Training Network.
May 2021	Acted as technical team member in the AICTE ATAL sponsored Online Faculty Development Program on "Academic Leadership and Management of Technical Education" organised by FET, GKV, Hardwar.
Sep. 2021	Participated in the one-day online workshop on "How to conduct the Students Induction (SIP) program" on 21st September 2021 organized by All India Council for Technical Education, New Delhi.
Oct. 2021	Organized an online quiz on "Awareness of Recent Developments in Computer Science" at the Department of Computer Science & Engineering, Faculty of Engineering and Technology, Gurukula Kangri University in collaboration with "NDLI club" on 11th oct, 2021.
April 2022	Attended an induction program organized by faculty of education & Training, Gurukul Kangri (Deemed to be University), Haridwar.
Dec.2021	Contributed as Co-ordinator of organizing committee of "Online Student Induction Program", FET, GKV, Haridwar.

Nov.2022	Working as organizing member of Student Induction Program (SIP) on 15 November to 25 November 2022 organized by Faculty of Engineering & Technology, Gurukula Kangri (Deemed to be University).
Feb. 2023	Organized an online quiz Competition on "Latest Technologies in Computer Science" at the Department of Computer Science & Engineering, Faculty of Engineering and Technology, Gurukula Kangri University in collaboration with "NDLI club".
Sept.2023	Participated in one week FDP on "Cloud application development using redhat openshift" organized by Department of Computer Science and Engineering Faculty of Engineering & Technology, Gurukula Kangri (Deemed to be University) in collaboration with IBM.
Feb. 2024	Organized an online quiz Competition on "Basics of ARTIFICIAL INTELLIGENCE AND NEURAL NETWORK in Computer Science" at the Department of Computer Science & Engineering, Faculty of Engineering and Technology, Gurukula Kangri University with collaboration of "NDLI club".

T R A I N I N G   E X P E R I E N C E

May - June 2005	31 days continuous training at **BHARAT HEAVY ELECTRICAL LTD.** (BHEL), HARIDWAR.
July 2007	31 days continuous training at **POWER TRANSMISSION CORPORATION OF UTTRANCHAL LIMITED** (PTCUL), Virbhadra, Rishikesh.
July 2008	30 days continuous training at **UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED** (UPPTCL), Sikandra, Agra.

P R O J E C T S   W O R K S

- ➢ **M. TECH**   -Noise Suppression in Speech Signals using Adaptive Filtering.
- ➢ **B. TECH**   - Frequency Converter Using MATLAB Simulation.
- ➢ **DIPLOMA**   - STUDY OF AN INVERTER (500 Watt.) for domestic use.

C O – C U R R I C U L A R   A C T I V I T I E S

September 2001	**Participated in district level tennis ball cricket in Late KAPIL DEV SINGH Championship, ORGANISE BY U.P. TENNIS BALL CRICKET ASSOCIATION & District TENNIS BALL CRICKET ASSOCIATION Mau.**
June 2003	MEMBER OF N.S.S. (**NATIONAL SERVICE SCHEME**) for 2 years and participated in camp for 10 days (working 240 hours).
August 2003	MEMBER OF BAND SQUAD of Dayalbagh Educational Institute, Agra and played trumpet on 15 AUG.
January 2005	MEMBER OF BAND SQUAD of Dayalbagh Educational Institute, Agra and played trumpet on 15 AUG, 26 JAN and 4 JAN.

S O F T W A R E   S K I L L S

- ➢ Programming Languages: C, C++, Core Java, Basics of Python.
- ➢ Operating Systems   : Microsoft Windows (98, 2000, XP, 7, 8, 10, 11) and DOS.
- ➢ Software Applications   : Microsoft office.

P E R S O N A L   D E T A I L S

- ➢ **Father's Name**   - PROFESSOR GURSEWAK TYAGI
- ➢ **Father's Occupation** - PROFESSOR(Retired)
- ➢ **Date of Birth**   - 24–11–1985
- ➢ **Languages Known**   - ENGLISH & HINDI
- ➢ **Category**   - GENERAL
- ➢ **Hobbies**   - CRICKET, BADMINTON & READING RESEARCH ARTICLES

D E C L A R A T I O N

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

Date: 10 / 08 / 2025   **Place:** Haridwar   (DR. AMAN TYAGI)