



Academic Profile

Dr. Fauja Singh
Assistant Professor,
Department of Computer Science
Maharaja Ganga Singh University,
Bikaner



Personal Information

Name: Dr. Fauja Singh

Date of Birth: May 1983

Date of Joining (MGS University): November 2015

Present Position: Assistant Professor

Department: Computer Science

Pay Matrix: ₹79,900 (Academic Level 11)

Mailing Address (Office): First Floor, Maharishi Kanv Bhawan (Academic Block I),
Maharaja Ganga Singh University, N.H. 15, Jaisalmer Road, Bikaner – 334004,
Rajasthan (India)

Mailing Address (Residence): A-169, Ansal Sushant City, Near MGS University, Naal
Road, Bikaner – 334004, Rajasthan (India)

Mobile No.: +91 96608 27705

Official E-mail ID: faujasingh@mgsbikaner.ac.in

Personal E-mail ID: faujasingh1983@gmail.com

Qualifications: Ph.D., UGC-NET, M.Tech, MCA

Specialization: Artificial Intelligence, Machine Learning, Deep Learning, Natural
Language Processing, Sentiment Analysis

Teaching Experience: 10+ Years

Book Chapters(2)

- Published a book chapter titled “**Scientific Software in Research Design and Methods**” in the book *Research Methods and Advance Techniques in Computer Science*, ISBN 978-93-90115-72-3, Book Code AB324-M225, Chapter 8, pp. 95–118, published by *Anu Books* in 2025. DOI: 10.5281/zenodo.16895038.
- Published a book chapter titled “**Initiatives to be Taken in the National Education Policy 2020 to Promote the Use of ICT in Education**” in the book *Prospects and Challenges in Integrating NEP 2020 into Our Education System*, ISBN 978-93-48029-19-5, Chapter 7, pp. 56–66, published by *Kitabwale, New Delhi* in 2025. DOI: 10.5281/zenodo.16894864.

Research Paper Publications in Journals(7)

- Published a paper titled “**XSS: A Kid’s Play to Exploit Web Applications**” in the *Journal of Advances and Scholarly Researches in Allied Education*, Vol. 11, Issue 22, pp. 282–286, ISSN 2230-7540, in July 2016. DOI: 10.5281/zenodo.16895077.
- Published a paper titled “**Integration: Object-Oriented Testing with UML**” in the *Journal of Advances and Scholarly Researches in Allied Education*, Vol. 13, Issue 2, pp. 905–911, ISSN 2230-7540, in July 2017. DOI: 10.5281/zenodo.16901304.
- Published a paper titled “**Fake News Monitoring with Machine Learning and Natural Language Processing**” in the *Journal of Advances and Scholarly Researches in Allied Education*, Vol. 15, Issue 4, pp. 674–677, ISSN 2230-7540, in June 2018. DOI: 10.5281/zenodo.16894992.
- Published a paper titled “**Issues of Privacy Comes with Web Personalization of E-Commerce**” in the *Journal of Advances and Scholarly Researches in Allied Education*, Vol. 15, Issue 12, pp. 1085–1089, ISSN 2230-7540, in December 2018. DOI: 10.5281/zenodo.16890015.
- Published a paper titled “**A Novel Approach to Sentiment Analysis on YouTube Comments using Natural Language Processing and Machine Learning**” in *Bohal Shodh Manjusha – An International Peer Reviewed, Refereed Multidisciplinary & Multiple Languages Research Journal*, Vol. 19, Issue 3(2), pp. 33–40, ISSN 2395-7115, in March 2024. DOI: 10.5281/zenodo.16894973.
- Published a paper titled “**Sentiment Analysis of Amazon Reviews with Natural Language Processing using Machine Learning Algorithms**” in the *International Advance Journal of Engineering, Science and Management*

(IAJESM), Vol. 22, Issue I, pp. 202–206, ISSN 2393-8048, for July–December 2024. DOI: 10.5281/zenodo.16894928.

- Published a paper titled “**Sentiment Analysis of Data from Social Media Platforms on COVID-19 using Machine Learning Algorithms**” in the *Journal of Research and Development – A Multidisciplinary International Level Refereed Journal*, Vol. 16, Issue 16, pp. 138–142, ISSN 2230-9578, in December 2024. DOI: 10.5281/zenodo.16894945.

Papers Presented in Conferences/Seminars/Symposium (12)

- Presented a paper titled “**Harnessing the Power of ICT for Reducing the Cost in Education Sector**” in the *National Seminar on National Policy of Education 2016: Issues, Challenges and Suggestions*, organized by Maharaja Ganga Singh University, Bikaner, on **17th October 2016**.
- Presented a paper titled “**Women Empowerment through Internet Education**” in the *National Sanskrit Symposium on Nari tu Narayani*, organized by Maharaja Ganga Singh University, Bikaner, on **24th–25th January 2018**.
- Presented a paper titled “**Use of Computer in Imparting Justice to Juveniles**” in the *National Seminar on Juvenile Justice System in Present Scenario*, organized by Maharaja Ganga Singh University, Bikaner, on **24th November 2018**.
- Presented a paper titled “**Gandhian Philosophy and its Relevance in 21st Century**” in the *National Symposium on Globalization and Gandhian Philosophy*, organized by Maharaja Ganga Singh University, Bikaner, on **30th January 2019**.
- Presented a paper titled “**Initiatives to be Taken in National Education Policy 2020 to Promote the Use of ICT in Education**” in the *National Seminar on Prospects and Challenges in Integrating NEP 2020 in Our Education System*, organized by the IQAC, Maharaja Ganga Singh University, Bikaner, on **11th September 2023**.
- Presented a paper titled “**Digital India & Technological Innovations: A Step Towards Developed Nation**” in the *National Seminar on Transformative Journey of Bharat During Last Decade*, jointly organized by Maharaja Ganga Singh University and Indian Political Science Association, held on **20th–21st January 2024**.
- Presented a paper titled “**A Novel Approach to Sentiment Analysis on YouTube Comments using Natural Language Processing and Machine Learning**” in the *International Conference on Recent Challenges & Trends in Multidisciplinary Studies*, organized by Maa Karni B.Ed. College in

collaboration with *Shri Khushal Das University, Hanumangarh*, on **2nd–3rd March 2024**.

- Presented a paper titled **“Sentiment Analysis of COVID-19 Data – A Path Towards Developed Country for Better Knowledge of the Epidemic”** in the *61st All India Political Science Conference & International Seminar on Viksit Bharat@2047*, organized by *Indian Political Science Association* and *Maharaja Ganga Singh University, Bikaner (Rajasthan)*, on **18th–19th October 2024**.
- Presented a paper titled **“Sentiment Analysis of Amazon Reviews with Natural Language Processing using Machine Learning Algorithms”** in the *National Conference on New Approaches in Computer Science & Engineering (NACSE-24)*, organized by the *Faculty of Engineering and Technology, Shri Khushal Das University, Hanumangarh (Rajasthan)*, on **27th November 2024**.
- Presented a paper titled **“Sentiment Analysis of Movie Reviews using Deep Learning can Transform the Film Industry”** in the *International Conference on Innovation and Entrepreneurship: Social, Economic & Technological Perspectives*, organized by *Basic P.G. College* in association with *Maharaja Ganga Singh University, Bikaner*, on **19th–20th December 2024**.
- Presented a paper titled **“Sentiment Analysis of Social Media Data with Natural Language Processing using BERT”** in the *International Conference on Computational Complexity and Intelligent Algorithms (IC3IA)*, held at *Shri Jain Girls P.G. College, Bikaner*, in collaboration with *Hari Krishan Research and Development Nexus, Bikaner, Engineering College Bikaner, University of Raparin (Kurdistan, Iraq)*, and *Springer*, on **8th–9th March 2025**.
- Presented a paper titled **“LSTM-Based Forecasting of Air Quality Index: A Study of Bikaner City, Rajasthan, India”** in the *International Conference on Emerging Challenges in Sustainable Development and Environmental Conservation (ICECSDEC 2025)*, organized by the *Department of Environmental Sciences, Maharaja Ganga Singh University, Bikaner*, from **25th–27th May 2025**.

Participation in Seminars/Webinars/Workshops(17)

- Participated in the **National Workshop on “Global Internet Governance – Opportunities and Challenges”** held on **April 11–12, 2014**, organized by the *Department of Computer Science and Informatics, University of Kota, Kota (Rajasthan)*.
- Participated in the **National Workshop on “Women’s Rights as Human Rights”** organized by *Maharaja Ganga Singh University, Bikaner*, on **January 25, 2016**.

- Participated in the **Workshop on “Academic Ethics and Integrity”** organized by *Maharaja Ganga Singh University, Bikaner*, on **August 4, 2017**.
- Participated in the **Antibiotic Resistance Awareness Programme**, organized by *Maharaja Ganga Singh University, Bikaner* in association with the *Indian Initiative for Management of Antibiotic Resistance (IIMAR)* on **November 16, 2017**.
- Participated in the **IQAC Writeshop** organized by the *Internal Quality Assurance Cell (IQAC), Maharaja Ganga Singh University, Bikaner*, on **December 17, 2018**.
- Participated in the **National Webinar on “Recent Advances in Life Sciences”**, organized by the *Department of Zoology, Government Dungar College, Bikaner*, on **November 4, 2020**.
- Participated in the **National Webinar on “Dynastic Evolution on the Nawabs of Lucknow”**, organized by the *Department of History, Maharaja Ganga Singh University, Bikaner*, on **December 18, 2020**.
- Participated in the **National Webinar on “Museums: Relevance and Transformation”**, organized by the *Centre for Museum and Documentation, Maharaja Ganga Singh University, Bikaner*, on **February 12, 2021**.
- Participated in the **National Seminar on “Post COVID-19: Emerging Trends in Information Technology and Computer Application”**, held on **February 27, 2021**, organized by the *Department of BCA, IMS Ghaziabad (University Course Campus)*.
- Participated in the **Webinar on “Positive Outlook amid COVID-19”**, organized by the *Career Counselling and Placement Cell, Maharaja Ganga Singh University, Bikaner*, on **May 1, 2021**.
- Participated in the **National Webinar on “Financial Empowerment: A Key to Financial Well-Being”**, organized by *Maharaja Ganga Singh University, Bikaner* in association with the *Association of Mutual Funds in India (AMFI)*, on **May 4, 2021**.
- Participated in the **National Webinar on “Financial Empowerment: A Key to Financial Well-Being”**, organized by *Udala College, Udala, Odisha*, in association with *Association of Mutual Funds in India (AMFI)*, on **May 21, 2021**.
- Participated in the **National Webinar on “Financial Empowerment: A Key to Financial Well-Being”**, organized by *Liberal College, Luwangsangbam, Imphal, Manipur*, in association with *Association of Mutual Funds in India (AMFI)*, on **June 7, 2021**.

- Participated in the **International Webinar on “Social Marginalization of Women in India through the Pages of History”**, held on **June 23, 2021**, organized jointly by the *Centre for Women’s Studies, Maharaja Ganga Singh University, Bikaner*, and the *Department of History, KAHM Unity Women’s College, Manjeri, Malappuram, University of Calicut, Kerala*.
- Participated in the **Two-Day International Webinar on “Remembering the Role of Translation in the Indian Freedom Struggle”**, held on **November 26–27, 2021**, jointly organized by the *Department of English, Maharaja Ganga Singh University, Bikaner*, and the *Department of English and Foreign Languages, Central University of Haryana, Mahendergarh*.
- Participated in the **Webinar on “Virtual Labs”**, organized by *Punjabi University, Patiala*, on **April 17, 2023**.
- Participated in the **Regional Workshop for the Western Desert Region of Rajasthan on “Envisaging Viksit Bharat – Viksit Rajasthan @2047”**, organized by the *Maharaja Ganga Singh Chair for Sustainable Development, Maharaja Ganga Singh University, Bikaner*, in collaboration with *UNICEF Rajasthan*, held on **July 23–24, 2024**.

Organized Programmes(12)

- Organized an **invited lecture on “Smart Techniques / Methodologies to Learn Things”** on **20th February 2017**, conducted by the *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*.
- Organized an **invited talk titled “Network Security using Wireshark Tool”** on **16th October 2018**, hosted by the *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*.
- Organized a **Two-Day Workshop on “Online Teaching and Evaluation”** in collaboration with the *Internal Quality Assurance Cell (IQAC)* on **11th and 13th August 2020**, conducted by the *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*.
- Organized a **National Webinar on “Virtual Meetings: Methods, Issues, and Challenges”** on **27th February 2021 (Saturday)**, under the auspices of the *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*.
- Organized an **invited lecture on “The Role of Study with Dedication for Success”** delivered by *Sh. Suman Rani* on **8th March 2021 (Women’s Day)**, hosted by the *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*.
- Organized an **invited lecture on “Management of E-Waste and Its Hazardous Effect on Humans”** delivered by *Dr. A. K. Dular* on **4th December 2021**,

organized by the *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*.

- Organized an **invited lecture on “The Role of Self Study in Career”** delivered by *Dr. Badri* on **21st December 2022**, organized by the *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*.
- Organized an **invited lecture on “The Role of Artificial Intelligence in Study”** delivered by *Dr. Yadav* on **10th February 2023**, organized by the *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*.
- Coordinated a **National Seminar on “Prospects and Challenges in Integrating NEP 2020 into Our Education System”** on **11th September 2023**, organized by the *Internal Quality Assurance Cell (IQAC), Maharaja Ganga Singh University, Bikaner*.
- Coordinated a **National Seminar on “Transformative Journey of Bharat During Last Decade”**, jointly organized by *Maharaja Ganga Singh University, Bikaner* and the *Indian Political Science Association*, held on **20th–21st January 2024**.
- Organized a **Certificate Programme on “Cyber Awareness & Cyber Security”** held from **23rd to 25th August 2024**, conducted jointly by the *District Police, Bikaner* and the *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*.
- Organized a **One-Day Workshop on “Sustainable E-Waste Management”** in collaboration with *NIELIT*, held on **8th October 2024 at 11:30 a.m.**, in the *Academic Council Hall, Maharaja Ganga Singh University, Bikaner*, with *Mr. Kapil Nayan (Scientist D)* serving as the keynote speaker.

Extension Lectures / Invited Talks(4)

- Delivered an **invited lecture** in the **Lower Division Clerk (LDC) Training Programme** organized by *Maharaja Ganga Singh University, Bikaner*, on **29th October 2018**.
- Served as a **speaker** in **“A Lecture Series on National Education Policy (NEP-2020)”**, jointly organized by the *Micro Task Force (NEP-2020)*, *Department of English*, and *Department of History, Maharaja Ganga Singh University, Bikaner*, on **9th September 2020**.
- Delivered an **invited lecture** in the **Skill Development Programme (SDP) Training Programme** organized by the *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*, on **23rd March 2022**.

Chairperson

- Served as **Chairperson** in the **Three-Day International Conference on Emerging Challenges in Sustainable Development and Environmental Conservation (ICECSDEC 2025)**, organized by the *Department of Environmental Sciences, Maharaja Ganga Singh University, Bikaner, Rajasthan*, held from **25th to 27th May 2025**.

Awards and Recognition

- Received '**Prof. Radhemohan Rai Shodhshri Award**' by Gina Prakashan (Guganram Educational and Social Welfare Society, Haryana) for creative research contribution in *Bohal Shodh Manjusha*, Vol. 19, Issue 3(2), 2025.

Completed Courses / FDPs(9)

- Completed the **29th Orientation Programme** held from **18th May 2016 to 14th June 2016** at the *UGC-Human Resource Development Centre (HRDC), Punjabi University, Patiala*, and was awarded an '**A**' Grade.
- Completed the **UGC-Sponsored Online Refresher Course in “Information Technology, Awareness & Applications”**, conducted from **21st October 2020 to 3rd November 2020**, at the *UGC-HRDC, Guru Nanak Dev University, Amritsar*, with an '**A**' Grade.
- Completed the **AICTE-ATAL Academy Online Elementary FDP on “Data Science”**, organized by *Punjab Engineering College (Deemed to be University)*, held from **7th June 2021 to 11th June 2021**.
- Completed the **AICTE-ATAL Academy Online Elementary FDP on “Artificial Intelligence and Machine Learning using Python”**, conducted from **21st June 2021 to 25th June 2021**, organized by *Engineering College, Bikaner*.
- Completed the **AICTE-ISTE Approved Orientation/Refresher Programme on “Artificial Intelligence and Machine Learning using Python”**, held from **6th December 2021 to 11th December 2021**, organized by *Government Engineering College, Bikaner (Rajasthan)*.
- Completed the **UGC-Sponsored Refresher Course on “Artificial Intelligence and Machine Learning”**, conducted from **9th January 2023 to 21st January 2023**, held at the *UGC-HRDC, Punjabi University, Patiala*, and obtained an '**A**' Grade.
- Completed the **One-Week National Level Online Workshop-cum-FDP titled “Python Programming by Using Google Colab for Data Analytics”**, conducted from **2nd July 2024 to 8th July 2024**, organized by *Progrezz Academic Training & Research Institute, Tamil Nadu*.

- **Received the Certificate of Participation in the Online Winter Faculty Development Programme “Data Sciences for All”**, organized by *Electronics & ICT Academies of IIT Guwahati, IIT Roorkee, IIITDM Jabalpur, MNIT Jaipur, and NIT Patna*, held over **ten days (40 hours)** from **24th February to 6th March 2025**.
- **Received the Certificate of Participation for the Faculty Development Programme “Machine Learning & Deep Learning for Educators: Building a Foundation for Future Skills”**, organized by the *Department of Advance Computing, Poornima College of Engineering, Jaipur (Rajasthan)*, held from **23rd to 27th June 2025**.

Administrative Positions

- Serving as a **Member, Board of Studies (BoS)**, *Maharaja Ganga Singh University, Bikaner*, from **2016 to till date**.
- Serving as **Warden, Boys’ Hostel (University Campus)**, *Maharaja Ganga Singh University, Bikaner*, from **9th January 2023 to till date**.
- Serving as **Co-coordinator, Career Counselling and Placement Cell**, *Maharaja Ganga Singh University, Bikaner*, from **February 2024 to till date**.
- Serving as **Assistant Centre Superintendent** for the conduct of University Examinations at the *MGSU Campus* from **2018 to till date**.
- Serving as a **Member, IT Cell**, *Maharaja Ganga Singh University, Bikaner*, from **2022 to till date**.
- Serving as **Nodal Officer, Scholarship College Portal**, *Maharaja Ganga Singh University, Bikaner*, from **2016 to till date**.
- Serving as **Nodal Officer, Karmyogi Portal**, *Maharaja Ganga Singh University, Bikaner*, from **2024 to till date**.
- Serving as **Level–1 Officer, Sampark Portal (Scholarship Division)**, *Maharaja Ganga Singh University, Bikaner*.
- Serving as **Course Coordinator (Self-Financed Scheme)** for the *PGDCA Programme, Department of Computer Science, MGS University, Bikaner*, from **July 2022 to till date**.
- Serving as **Departmental Time Table In-charge**, *Department of Computer Science, MGS University, Bikaner*, from **2015 to till date**.
- Serving as **Departmental Alumni In-charge**, *Department of Computer Science, MGS University, Bikaner*, from **2020 to till date**.

- Held the position of **Proctor**, *Maharaja Ganga Singh University, Bikaner*, from **2019 to 2022**.
- Held the position of **Nodal Officer, University Website**, *Maharaja Ganga Singh University, Bikaner*, from **2016 to 2023**.
- Served as **Co-coordinator, Department of Accountancy and Business Statistics (ABST)**, *Maharaja Ganga Singh University, Bikaner*, from **June 2023 to July 2025**.
- Served as a **Member, Anti-Ragging Squad**, *Maharaja Ganga Singh University, Bikaner*, from **2019 to 2022**.
- Served as a **Member, Adopted Village Committee**, *Maharaja Ganga Singh University, Bikaner*, from **2019 to 2022**.
- Served as a **Member, Prospectus Committee**, *Maharaja Ganga Singh University, Bikaner*, from **2017 to 2020**.
- Served as **Member and Nodal Officer, Alumni Cell**, *Maharaja Ganga Singh University, Bikaner*, from **2019 to 2021**.
- Served as **Co-coordinator, Department of Commerce and Management**, *Maharaja Ganga Singh University, Bikaner*.
- Served as **Member, Career Counselling and Placement Cell**, *Maharaja Ganga Singh University, Bikaner*, from **2017 to 2019**.
- Served as **Nodal Officer, Scholarship Student Portal**, *Maharaja Ganga Singh University, Bikaner*, from **2016 to 2018**.
- Served as **Departmental Admission In-charge**, *Department of Computer Science, Maharaja Ganga Singh University, Bikaner*, during the **academic session 2019–2020**.

Research Profiles and Identifiers

- ResearchGate: <https://www.researchgate.net/profile/Fauja-Singh/research>
- Google Scholar: <https://scholar.google.com/citations?user=ywCrG-YAAAAJ&hl=en>
- ORCID: <https://orcid.org/0009-0007-9868-1068>
- Zenodo: https://zenodo.org/search?q=metadata.creators.person_or_org.name%3A%22Singh%2C%20Fauja%22&l=list&p=1&s=10&sort=bestmatch
- Academia.edu: <https://gvcte.academia.edu/FaujaSingh>
- LinkedIn: <https://www.linkedin.com/in/fauja-singh-48870360/>

Date: 12.11.2025

Dr. Fauja Singh