

Name: Dr. Sapna Dhiman

Designation: Assistant Professor

Specialization: Computer Science

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Education

M.C.A. (2008, Kurukshetra University, Kurukshetra),

M.Phil (2009, M. M. University, Mullana),

Title of M.Phil Thesis: Development of Search Engine for Punjabi.

Ph.D. (2019, Punjabi University, Patiala)

Title of Ph. D Thesis: Enhancing Accuracy of Gurmukhi OCR using Multiple Classification Schemes and Language Modeling.

Professional Experience:

Teaching:

Department of Computer Science, Govt. Bikram College of Commerce, Patiala, Punjab (15 Sept, 2023 to till date)

Department of Computer Science, M.M. Modi College, Patiala, Punjab (26 July, 2008 to 14 Sept, 2023)

Non-Teaching:

Data Entry Operator, Advanced Centre for Development of Punjabi Language, Literature and Culture, Punjabi University, Patiala, Punjab (March 2007 to 25 July, 2008)

Research Interest:

Digital Image Processing

Publications

1. Published a paper, “**Extraction of Punjabi words for Database of Search Engine**”, in International Journal of Computer Science Issue (IJCSI), Vol. 9, Issue 4, pp 411-416, 2012.
<https://www.ijcsi.org/papers/IJCSI-9-4-1-411-416.pdf>

2. Published a paper, “**Feature Extraction for Gurmukhi: Gabor Filter and DCT**”, in International Journal of Research in Computer Application and Robotics, Vol. 5, No. 4, pp 24-28, 2017.
https://ijrcar.com/Volume_5_Issue_4/v5i409.pdf
3. Published a paper, “**Comparative Analysis for Gurmukhi and Devanagari Script at Word Level**”, in International Journal of Engineering Technology and Computer Research, Vol. 5, No. 3, pp 49-54, 2017.
<https://ijetcr.org/index.php/ijetcr/article/view/377/378>
4. Published a paper, “**Dental Image Analysis Approach Integrates Dental Image Diagnosis**”, in International Journal of Current Research and Review (Scopus), Vol 12, No. 16, pp 47-51, 2020.

DOI: <http://dx.doi.org/10.31782/IJCRR.2020.12166>

Conference / Seminars

1. Presented a paper entitled “**Data Mining**”, 7th National Seminar, Techvision 2020 – Emerging Paradigms in Information Technology (Mandi Gobindgarh), 2009.
2. Presented a paper entitled “**E-governance Practices in India – Empowering the Common Man**”, National Seminar on Contemporary Socio-Economic Dimensions in The Growth of Business (M. M. Modi College, Patiala), 2013.
3. Presented a paper entitled “**Pattern Recognition: An emerging field of artificial intelligence**”, International Business Conference (M. M. Modi College, Patiala), 2014.
4. Participated and a poster presented entitled “**E-Waste Management Practices in India**”, at 8th National Conference on RACES (M. M. Modi College, Patiala), 2016.

Workshops and Faculty Development Programme

1. Attended 15 days UGC Sponsored FDP held on July 1-15, 2014 at M. M. Modi College, Patiala
2. Participated 7 days FDP organized by Rajiv Gandhi National Institute of Youth Development from July 6- 12, 2015 at M. M. Modi College, Patiala
3. Attended 7 days UGC Sponsored FDP held on Jan 09-16, 2017 at M. M. Modi College, Patiala
4. Attended 7 days FDP organized by IQAC held on July 20-26, 2018 at M. M. Modi College, Patiala
5. Attended 7 days FDP held on July 17-22, 2019 at M. M. Modi College, Patiala
6. Attended 3 days workshop on Android App Development & Artificial Intelligence attended on Nov13-15, 2019.

- 7.** Attended 9 days online FDP on Machine Learning held on May 4-12, 2020 from IIT Roorkee.
- 8.** Attended 7 days online FDP on Machine Learning and Artificial Intelligence held on May 11-17, 2020 from Forskfree Technology.
- 9.** Attended 7 days online workshop on Integration of Pedagogy and Technology in Teaching – Learning held on July 13-19, 2021 in M. M. Modi College, Patiala.
- 10.** Attended 5 Days Online FDP on Machine Learning Applications in NLP and Computer Vision, held on Oct 4-8, 2021 organised by Department of Computer Science, Punjabi University, Patiala.