
DR.DEEPAAK DUDEJA

Professional Summary

17 years of rich Experience of Teaching and Administration out of which 12 years as a **Registrar** with demonstrated history of working in the higher Education for corporate enterprises. Skilled in Artificial Intelligence, Machine Learning and Data Science with NEP-2020.

Experience

May 2023-Present	Professor and Cluster Head, Department of Computer Science & Engineering, MMEC, Maharishi Markandeshwar (Deemed to be University), Mullana
Feb 2022–April 2023	Controller of Examinations, Joint Registrar and Associate Professor, CSE, Geeta University, Panipat.
Oct 2015– Jan 2022	Registrar , Officiating Director and Assistant Professor: Geeta Engineering College, Panipat, Haryana
Feb 2011-Sep 2015	Registrar and Assistant Professor: Technology Education & Research Integrated Institutions (TERII), Kurukshetra
Aug 2008-Feb 2011	Controller of Examinations and Lecturer: K.R.N.Institute of Technology, Kurukshetra

Education

Aug2018–Jan2022	Ph.D. A Novel Technique for Road Traffic Management using Machine Learning CT University (UGC Approved), Ludhiana,Punjab
2009-2011	Master of Technology:Information Technology Karnataka State Open University, Mysore
2005-2008	Master of Computer Applications Kurukshetra University, Kurukshetra

2002-2005

Bachelor of Computer Applications

Kurukshetra University, Kurukshetra

Administrative Responsibilities

- Cluster Head of CSE Department at MMEC, MMDU, Mullana with responsibilities for the upliftment of department via start-ups, innovations, Hackathons, Emerging Technologies and other day to day activities of the department.
- NIRF Coordinator of MMEC.
- Start-Up and Industrial Collaboration In-charge.
- Members of Academic Council, Governing Body, BoS, BoF etc.
- Member of Various Department Level Committees like RAC, Class Checking etc.
- Stakeholder Feedback and Up gradation.
- Affiliation and Approval Processes from the Statutory bodies like AICTE/ PCI/ BCI/ NCI/KUK/ HSBTE /UHS /CBSE /HBSE etc.
- Accreditation Process of NAAC Grading and AQAR of every year.
- Admission Process and Registration of All students at University/Board.
- Examination System(Pre-examination/Post-examination).
- Orientation for Non-Teaching Staff.\ Student Services and Feedback of Students for the upliftment of the organization.
- Setup of New Private University named **Geeta University**, Village Naultha, Panipat.
- **Scholarship Portals**(State and Central Level) NSP/PMSSS/E-Kalyan/PMS
- International Students FRRO Process
- Human Resource Management (Joining/Appraisals/Explanation/Appreciation/Relieving)
- As a Project Head established ION Digital Centre (TCS Online Examination Centre) with latest technology for all type of online exams(GATE/NET/JEE/Banking etc.)at Technology Education & Research Integrated Institutions, Kurukshetra and Geeta Engineering College, Panipat.
- Received the grant many times from AICTE (Approx Rs.50 Lacs) towards PMKVY project during the session 2017-2020 at Geeta Engineering College, Panipat.
- Setup of New Institute named Geeta Institute of Pharmacy at Geeta Group of Institutions, Naultha Campus, Panipat.
- A great exposure to Co-ordinate inspection teams like PCI, AICTE, KUK, PBDSUHS, HSBTE, CBSE, IIT, NITetc.
- Set up various centre of excellence of reputed companies like IBM, CISCO Academy, Redhat Academy, Oracle etc. at Geeta Engineering College.
- Organized International Conference (AEMDS) with collaboration of Elsevier at Technology Education and Research Integrated Institutions, Kurukshetra in 2013.
- Organized Conferences (2017, 2018 and 2020) at Geeta Group of Institutions, Naultha Campus, Panipat
- Organized Convocation (2016and2019) at Geeta Group of Institutions, Panipat.
- And Many More...

Publications and Patents

Patents Granted

- UK Design Patent, Design Number : 6302718, Bio sensing Device for detecting bio

Molecules.

- UK Design Patent, Design Number : 6,335,757, Augmented Reality System for Virtual Workplace Integration
- UK Design Patent 6, 349,127, AI Driven Centrifuge Tubes for Optimized Laboratory Workflows
- Indian Design Patent Application No.: 361911-001, A Cloud based wrong way traffic alert Systems
- Indian Patent Application No.: 387459001, Digital Writing Board

Patents Published

- An IOT Based Wrist watch for Patient Healthcare Monitoring Using Deep Learning. **(IN Patent App. 202,011,040,228)**
- A Wearable Jacket for Managing Social Distancing Using Blockchain Technology. **(IN Patent App. 2,020,110,464,428)**
- Improving The Efficiency of Supply Chain Management Using QRCode and Cloud Web services. **(IN Patent 2,020,110,520,005)**
- System And Method for Data Reconstruction in Wireless Sensor Networks for Internet of Things. **(IN Patent App. 202,011,057,352)**
- A System for analyzing mineral and Gas Production using Machine Learning/AI Interfaces. **(IN Patent 202,111,013,152)**
- An Artificial Intelligence(AI) based system for User Classification & Identification for providing Rewards to User & Method thereof. **(IN Patent 202,111,023,392)**
- A System Based on Deep Learning for Analyzing Delayed Magnetic Enhancement Resonance Imaging to Identify covid19 And Method Thereof. **(IN Patent 202,211,000,064)**
- An Artificial Intelligence and Secured Http Based Marketing Management Tool and Method Thereof. **(IN Patent 202,111,050,031)**
- An Internet Firewall Processing through Machine Learning Based System and Method

Thereof. (INPatent202,111,054,070)

- A System for Optimizing SQL Operations in a Blockchain Structure. (INPatent202,111,048,082)

Start-Ups

- **Alpha Intern: Skill Enhancement**
- **Mind Mantra: Mental Health Care**
- **Prakriti Ply-I: AIML based**

Books Published

- Deepak Dudeja “**Artificial Intelligence**”, Nandani Publications, New Delhi (ISBN:978-93-81126-15-8),2011.
- Deepak Dudeja & Abhishek Taneja, “**Fundamental of Software Engineering**”, Nandani Publications, New Delhi (ISBN: 978-81-910774-3-8), 2011.

Paper Published

1. Machine Learning-Based Autonomous Optimization of Unattended Wireless Sensor Networks Through Multi-Cause Reinforcement Learning, JK Chaudhary, D Dudeja, NK Verma, AK Saini, D Kapila, S Mohapatra, Springer Nature, SN Computer Science 6 (2), 179, 2025
2. Predictive Modeling of Heart Disease Risk: A Machine Learning Approach, B K Agrawal Deepika Arora, Deepak Dudeja, ICOFE-2024, Engineering SSRN, 2025
3. Android offloading computation over the cloud, V Prakash, D Dudeja, G Chhabra, L Garg, Applications of Artificial Intelligence in 5G and Internet of Things, 527-533, CRC Press, 2025
4. Encryption and decryption framework using elliptic curve cryptography V Prakash, D Dudeja, G Chhabra, L Garg, Applications of Artificial Intelligence in 5G and Internet of Things, 519-526, CRC Press, 2025
5. Cryptography machine: Encryption and decryption model for multimedia data V Prakash, D Dudeja, G Chhabra, L Garg, Applications of Artificial Intelligence in 5G and Internet of Things, 534-545, CRC Press, 2025.
6. Cyber Security Based Application-Specific Integrated Circuit for Epileptic Seizure Prediction Using Convolutional Neural Network," Journal of Intelligent Systems and Internet of Things, vol. 13, no. 1, pp. 234-250,2024.

DOI: <https://doi.org/10.54216/JISIoT.130117>

7. An investigation of Malware Detection System using Deep Learning on computing Systems, November 2023 Article No.:42, Pages 1 – 7
<https://doi.org/10.1145/3647444.3647868>
8. Detection of Anomaly Detection with high dimensional data using volume and velocity aspects, November 2023 Article No.: 34, Pages1– 6
<https://doi.org/10.1145/3647444.3647860>
9. Recent Developments in Machine Learning Predictive Analytics for Disaster Resource Allocation, Sunita Pachar, Deepak Dudeja, Neha Batra, Vinam Tomar, John Philip Bhimavarapu, Avadh Kishor Singh, Engineering Proceedings 59 (1),19, MDPI
10. Sales Based Models for Resource Management and Scheduling in Artificial Intelligence Systems, D Dudeja, SM Sabharwal, Y Ganganwar, M Singhal, N Goyal, A Tiwari, Engineering Proceedings 59(1),43 MDPI.
11. Breast Cancer Diagnosis Using Bagging Decision Trees with Improved Feature Selection D Dudeja, A Noonian, S Lavanya, V Sharma, V Kumar, S Rehan, Engineering Proceedings 59 (1), 17, MDPI.
12. Energy Efficient and Secure Information Dissemination in Heterogeneous Wireless Sensor Networks Using Machine Learning Techniques-Deepak Dudeja, Sabeena Yasmin Hera, Nitika Vats Doohan, Nilesh Dubey, R Mahaveerakannan, Tariq Ahamed Ahanger, Simon Karanja Hinga, Wireless Communication and Mobile Computing, July 2022, Hindwai
13. **Customer behaviour classification using majority based ensemble voting classifier**-Deepak Dudeja, Satyajeet Srivastava, Volume 2481, Issue1, AIP Publishing LLC, 2022
14. **A unified framework for vehicle rerouting and travel behavior models**-Deepak Dudeja, Harmeet Singh, Volume 2481, AIP Publishing LLC, 2022
15. **Intelligent Systems: Enhanced Security Using Deep Learning Technology** –S Srivastava, A Singh, D Dudeja Artificial Intelligence and Global Society, 175-189 (Taylor & Francis)
16. **A Novel Framework for Road Traffic Management using Machine Learning** - Deepak Dudeja, Harmeet Singh Test Engineering & Management, June 2020.
17. **Congestion Detection Model to predict traffic congestion using Machine and Deep Learning**–Deepak Dudeja, Harmeet Singh; Vidyabharti Journal of Interdisciplinary Sciences (UGC-Care II: Web of Science), Sept, 2021

- 18. Intelligent Road Traffic Control System for traffic congestion-**
Deepak Dudeja, Harmeet Singh, ICFT2019.
- 19. Real Time Traffic Management Technique using Machine Learning-** Deepak Dudeja, Harmeet Singh, ICFT-2021.
- 20. Text Analytics on Social Media Dataset Based on Deep Learning-**
D Dudeja, Ankita, Aegaeum Journal8(9)
- 21. A Review on Text Analytics Based on Deep Hashing Method-**D Dudeja, IJARCCCE9(8).
- 22. A Comparable Study of Adhoc Routing Protocols-**D Dudeja, N Jindal Advancements in the Era of Multidisciplinary Systems, Elsevier2013
- 23. 1D and 2D Reconstruction of Heterogeneous Media-**D Dudeja, D Sharma Advancements in the Era of Multidisciplinary Systems at TERI, Elsevier2013
- 24. Comparable study of JPEG and TIFF File Format on the basis of Chandigarh Road Map-** DS, DeepakDudeja,IJESM,2011
- 25. Comparable Study of Requirement Engineering Approaches-** D Dudeja, S Allen, IJESM,2011
- 26. Comparable Study of Grid & Cloud Computing–**Deepak Dudeja, IJESM, 2012
- 27. Comparative Analysis of Two Routing Protocols with Respect to: Network Throughout, End to End Delay and Normalized Routing Overhead-**K Saini, D Dudeja, S Sharma
- 28. A Survey on techniques of Road Traffic Management,** IMARC (Conference Proceeding), August 2019
- 29. Modular Object-Oriented Dynamic Learning Environments,** NCETE-2011

Conferences

In 2025, 2024, 2023 and 2022 number of Conferences have been attended as Presenter and Reviewer. Confluence 2024, 2023 (IEEE Conference), ICCIIoT 2023 (Springer), Raise 2023 etc.

December 2021

Session Chair a world conference on Applied Science, Engineering & Technology(WCASET-2021),IFERP.

July 2021

Presented a Paper on "A Unified Framework for Vehicle Rerouting and Travel Behavior Models "International Conference on Advancements in Engineering and Sciences

(ICAES2021), July 2021 (Scopus-Indexed) at Graphic Era University, Dehradun.

- Feb 2021 Presented a Paper on “**Real Time Traffic Management Technique using Machine Learning**” in International Conference on Futuristic Technologies in Engineering & Innovation in Business Management for Sustainable Development at Geeta Engineering College.
- Jul 2020 Presented a Paper on “**A Novel Framework for Traffic Management**” in International Conference on Emerging Trends in Multi-Disciplinary Research ETMDR-2020 at Poornima University.
- Sep 2019 Presented a Paper on “A Survey on techniques of Road Traffic Management” in International Multi-Disciplinary Academic Research Conference at CT University, Ludhiana.
- Apr 2019 Presented a Paper in International Conference on “Futuristic Technologies at Geeta Engineering College”, Panipat.
- Apr 2020 Attended International Conference on “**Innovations in the fields of Engineering, Technology & Management**” at Geeta Engineering College, Panipat.
- April 2013 Organized a Conference as Co-Convenor with Elsevier at TERII, Kurukshetra and presented two papers.
- Sept2011 Presented a paper on the Moodle at Geeta Engineering College, Village Naultha, Panipat

Professional Certifications

- **Google Certified Digital Marketing Manager:** Video Marketing, Google Adwords, SMO, SEO, Affiliate Marketing, Email-Marketing
- **IBM Certified Data Scientist: Master’s Program-Data Scientist: Simplilearn Certified in collaboration with IBM**
 - Data Science with Python
 - Data Science with R
 - Advance Machine Learning
 - Tableau10
 - Big Data Hadoop & Spark Developer
 - Data Science Capstone

Workshops

- Attended ISTE Workshop on Akash for Education of IIT Bombay at TERii on 10th & 11th November, 2012.
- Attended 12 AICTE Workshops for Approval Process for Stakeholders every year (2012-2023).
- Attended AISHE Workshop at Govt.College, Sector-1,Panchkula on 13/02/2019.
- Attended Workshop on IOT at Geeta Engineering College on 17/09/2019 to 19/09/2019 organized by NITTR, Chandigarh.
- Attended Workshop on Data Visualization at Indian Engineering Teacher's Association, Kolkata.
- Attended Workshop on Data Science & Machine Learning at Indian Engineering Teacher's Association, Kolkata.

And Many More.....

Faculty Development Programs

A Number of Faculty Development Programs have been attended as expert and participant in 2024 and 2023.

March 2025	Advancements in ai, data science and transdisciplinary research: bridging innovation across domain organized by University Of Engineering & Management, Kolkata.
Feb 2025	Intellectual Property Rights, Sagar Institute of Research and Technology, Bhopal.
Nov 2024	AI for Engineering Applications, ECE Department, Maharishi Markandeshwar Engineering College with NITTTR, Chandigarh.
Sept 2024	Full Stack Developer organized by SkillDzire.
Aug 2024	Sustainable Development in Industry 5.0 with AI organized by Haldia Institute of Technology.
June 2024	Recent Trends in Artificial Intelligence and Machine Learning, Bonam Chalamayya Engineering College\
April 2024	Effect of Generative Artificial Intelligence in Modern Research and Industry, CSE Department, Sister Nivedita University, Kolkata, India.
March 2024	4th One-Week International Workshop on Technical Writing using LaTeX (Online), VIT-AP University, Amaravati, India.

Feb 2024	Python programming with django framework, CMR Engineering College.
Jan 2024	Research Paper and Project Writing, CT University, Ludhiana
Dec 2023	Artificial Intelligence And Machine Learning, IT Vertical, iNurture.
Oct 2023	Challenges and Opportunity in Electric Vehicles, Electrical Department KSR College Of Engineering.
Sept 2023	Introduction to Embedded Systems and Robotics, University of Jammu with IIT Mumbai.
May 2023	IPR organized by NIPAM.
May 2023	UIPATH organized by Maharishi Markandeshwar Engineering College with ICT Academy.
Nov 2019	One week faculty development program on “Multidimensional Signals in Telecommunication: Processing and Analysis” organized by DCRUST, Murthal.
April 2020	One Week Faculty Development Program on “ Python3.4.3 ” Organized by NBN Singhad School of Engineering, Pune.
April 2020	One Week Faculty Development Program on “ R Programming ” at CT University with association of spoken tutorial of IIT Bombay.
May 2020	One Week Faculty Development Program on “ Introduction to Machine Learning using Python ” organized by MIT, Pune.
May 2020	One Week Faculty Development Program on “ Artificial Intelligence: An Industry Perspective ” Organized by Panimalar institute of Technology, Chennai.
Jun 2020	One Week Faculty Development Program on “ Moodle Learning Management System ” at CT University with association of spoken tutorial of IIT Bombay.
Jun 2020	One Week Faculty Development Program on “ Artificial Intelligence: An Industry Perspective ” at Panimalar Institute of Technology, Pannamalle, Chennai.
Aug 2020	One Week Faculty Development Program on

“Emerging Trends and Applications” of AI at Dr.Ambedkar Institute of Technology.

Sep 2020

One Week Faculty Development Program on **“Artificial Intelligence using Python”** organized by Brainvision Solutions India Pvt. Ltd. & National Youth Council of India.

Sep2021

One Week Faculty Development Program on **“Research Perspective on New Age Technologies”** organized by NGM College, Tamilnadu.

And Many More.....

Technical Skills

- **Languages:** Python, R, C,C++,Visual Basic, COBOL,VC++
- **Libraries: Python** (Numpy, Pandas, Matplotlib, sci-kitlearn, Seaborn), **R**(R Basics, deplyr etc.)
- **Applied Statistics:**Central Tendency, Dispersion, Statistical Tests
- **Applied Machine Learning:** Regression, Classification, Clustering, Association Rule,Time Series
- **Tools & Technology:** SAP(ABAP), J2SE, J2EE,Tableau
- **Website Development:** Word Press, HTML,DHMTL,CSS
- **Exploratory Data Analysis, Feature Selection and Selection** using Python and R

Personal Information

Father's Name	:Shri Arjun Dev
Mother's Name	:Smt. Sita Devi
Date of birth	:21Aug,1982
Marital Status	:Married
Permanent Address	:#1, Kuber Colony, Dudeja's Kurukshetra, Haryana-136118
Language known	:Hindi, English and Punjabi
Contact No.	9466794142
Email-id	:drdeepakdudeja@gmail.com

Date.....

Signature

Place.....