

# UTTAM CHAUHAN

34, Parijat Homes, Opp. Shantam Party Plot, Near Sargasan Cross Road, Gandhinagar-382421, Gujarat  
+91 982 489 7671 ◊ uttam.chauhan@gecmodasa.ac.in

## EDUCATION

---

|                                                                                                            |                           |
|------------------------------------------------------------------------------------------------------------|---------------------------|
| <b>Ph.D, Computer Engineering</b><br>Gujarat Technological University, Ahmedabad, Gujarat                  | February 2014 - Aug 2018  |
| <b>M.E, Computer Engineering</b><br>Faculty of Technology, Dharmsinh Desai University, Nadiad, Gujarat 69% | July 2006 - May 2008      |
| <b>B.E, Information Technology</b><br>Nirma Institute of Technology, Gujarat University, Gujarat, 62.5%    | November 2000 - July 2004 |

## RESEARCH INTEREST

---

Natural Language Processing, Text Mining, Machine Learning, Deep Learning, Data Analytics

## WORK EXPERIENCE

---

|                                                                                                                                                               |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Lecturer (Ad-hoc) in Information Technology Department<br><b>C.U.Shah College of Engineering and Technology</b> , Wadhwan City - 363 030, Gujarat             | August 2004 - November 2004 |
| Lecturer (Regular) in Information Technology Department<br><b>C.U.Shah College of Engineering and Technology</b> , Wadhwan City - 363 030, Gujarat            | December 2004 - July 2006   |
| Assistant Professor (Regular) in Information Technology Department<br><b>Charotar University of Science and Technology</b> , Changa - 388 421, Anand, Gujarat | May 2007 - May 2011         |
| Assistant Professor (Regular) in Computer Engineering Department<br><b>Vishwakarma Government Engineering College</b> , Ahmedabad - 382 424, Gujarat          | May 2011 - April 2025       |
| Associate Professor (Regular) in Computer Engineering Department<br><b>Government Engineering College, Modasa</b> - 383 315, Gujarat                          | April 2025 - Present        |

## RESEARCH PUBLICATION IN JOURNAL

---

- B. Gentiyal, S. Vahora, P. Gamit, M. Patel, H. Patel, M. Goyani, **U. Chauhan**, P. Patel “Parkinson’s Disease Detection Using Keystroke Dynamics And With Convolutional Neural Networks”. Journal of Engineering and Technology for Industrial Applications. (ITEGAM-JETIA) Vol. 12, Issue 59, May-June 2026
- S. Serasiya, **U. Chauhan**, “Abstractive Gujarati Text Summarization Using Sequence-To-Sequence Model and Attention Mechanism”. Journal of Information Systems Engineering and Management Vol. 10, Issue 41s, pp. 754-762, May 2025
- J. Vaniya, S. Vahora, **U. Chauhan**, S. Vegad “HyViSE: (Hybrid ViT-SE) Approach for Crowd Anomaly Detection and Emotion-Behavior Classification ”. Journal of Information Systems Engineering and Management, Vol. 10, Issue 19s, pp. 293-308, March 2025
- S. Serasiya, **U. Chauhan**, “A Comprehensive Survey on Text Summarization For Indian Languages: Opportunities, Challenges and Future Prospects ”. South Eastern European Journal of Public Health, Vol. XXVI, Issue 2, pp. 1418-1434, February 2025
- J. Vaniya, S. Vahora, **U. Chauhan**, S. Vegad “Crowd Emotion and Behavior Analysis Using Lightweight CNN Model ”. International Journal of Electrical and Electronics Engineering, Vol. 10, Issue 11, pp. 30-46, October 2024
- J. Jadav, **U. Chauhan**, 2024. “Personalized Features-Based Stress Detection With Hyperparameter Tuning Using Genetic Algorithm ”. Reliability: Theory & Applications., Vol. 19, Issue 3, pp. 298-309

- A Ayenew, **U. Chauhan**, A Dave, J Shroff, N Dave, J Jadav, A Rathod “An Evolutionary Amharic Fake News Detection Based on ML and Deep Learning Approach Algorithm ”. Journal of electrical Systems., Vol. 0, Issue 3, pp. 3183-3193
- J. Jadav, **U. Chauhan**, 2024. “Analysis of Personalized Stress Recognition in the Office Environment ”. Reliability: Theory & Applications., Vol. 19, Issue 2, pp. 377-389
- J. Jadav, **U. Chauhan**, 2024. “Heart Rate Variability Based LSTM Model for Stress Detection with Explainable AI Insights”. International Journal of Intelligent Systems And Applications In Engineering., Vol. 13, Issue 1, pp. 851-863
- D. Patel, F. Patel, and **U. Chauhan**, 2023. “Recommendation Systems: Types, Applications, and Challenges”. International Journal of Computing and Digital Systems., Vol. 13, Issue 1, pp. 851-863
- U. Chauhan**, S. Shah, D. Shiroya, D. Solanki, Z. Patel, J Bhatia, S. Tanwar, R. Sharma, V. Marina, and M.S. Raboaca, 2023. “Modeling Topics in DFA-Based Lemmatized Gujarati Text”. Sensors, 23(5), p.2708.
- J. Bhatia, K. Italiya, K. Jadeja, M. Kumhar, **U. Chauhan**, S. Tanwar, M. Bhavsar, R. Sharma, D.L. Manea, M. Verdes, and M.S. Raboaca, 2022. “An overview of fog data analytics for IoT applications.”Sensors, 23(1), p.199.
- U. Chauhan** and A. Shah. “Topic Modeling Using Latent Dirichlet Allocation: A Survey”.ACM Computing Surveys. Article 145 (September 2021), 35 pages, DOI: <https://doi.org/10.1145/3462478>
- D. Shah, V. Trivedi, V. Sheth, A. Shah, and **U. Chauhan** .“ResTS: Residual Deep Interpretable Architecture for Plant Disease Detection.”Information Processing in Agriculture. (June 2121), 26 pages, DOI:<https://doi.org/10.1016/j.inpa.2021.06.001>
- U. Chauhan** and A. Shah. “Improving Semantic Coherence of Gujarati Text Topic Model Using Inflectional Forms Reduction and Single-letter Words Removal”. ACM Trans. Asian Low-Resour. Lang. Inf. Process. Vol. 20, Issue 1, Article 18 (March 2021), 18 pages. DOI:<https://doi.org/10.1145/3447760>
- U. Chauhan**, A. Shah, U. Yadav, “The Architecture for Optimizing Semantic Topical Coherence in Gujarati Text Topic Modeling”, Oxford Journal of Intelligence and Data Science, Vol. 1 Issue 1, May 2018, pp. 1-11
- U. Chauhan**, A. Shah, U. Yadav, “A Survey - Sophisticated Topic Modeling ”, Journal of Maharaja Sayajirao University of Baroda, Vol. 52 Issue 1, February 2017, pp. 26-43
- N. Prajapati, K. Modi, **U. Chauhan**, “Web Page Data Extraction and Categorization Web Pages Using Rule Based Classification Algorithm Indo – Asian Journal of Multidisciplinary Research, Vol. 1 Issue 1, 2015, pp. 15-39
- A. Patel, **U. Chauhan**, S. Patel, “Reducing Average Waiting Time for Processes in Distributed System Using Dynamic Priority and Multiple Token Algorithm ”, International Journal of Engineering Science and Research, Vol. 3 Issue 6 (ICI Indexing), June 2013, pp.4082-4087
- N. Dave, **U. Chauhan**, A. Dave, “Text Based Fuzzy Clustering Algorithm to Filter Spam E- mail ”, International Journal for Scientific Research and Development, Vol. 1 Issue 3, 2013, pp.607-609
- M. Valera, **U. Chauhan**, K. Rathod, “A Neoteric Web Recommender System based on Approach of Mining Frequent Sequential Pattern from Customized Web Log Preprocessing ”, International Journal of Computer Applications, Vol. 69 Issue 24 (ICI Indexing), May 2013, pp.16-21
- U. Chauhan**, Y. Kosta, A. Ganatra, A. Thakkar “An Analysis and Study of Decision Tree Induction Operating Under Adaptive Mode to Enhance Accuracy And Uptime In a Dataset Introduced to Spontaneous Variation in Data Attributes ”, International Journal of Engineering Science and Technology (IJEST), Vol. 1 Issue 1, January 2011, pp.1-6

## RESEARCH PUBLICATION IN CONFERENCE

- U. Chauhan**, N. Dave, A. Dave, V. Kachhadiya, P. Chavadiya, M. Dobariya, R. Nai, D. Patel, “Enhancing Semantic Coherence In Gujarati Topic Models by Eliminating Poor Quality Topics ”. in the 8th Parul University International Conference on Engineering and Technology (PiCET 2026) on Innovations in Computing: Smart, Sustainable and Emerging Technologies - 01 - 02 May, 2026

- P. Hirpara, H. Valangar, V. Kachhadiya, **U. Chauhan**, “Deepfake Detection Demodulate Synthetic Videos Using Deep Learning Models ”. In 12th International Conference on Computing for Sustainable Global Development, Bharati Vidyapeeth, New Delhi, India, 02-04 April, 2025
- R. Parikh, K. Bhavsar, **U. Chauhan**, “Securing E-Commerce: A Comprehensive Analysis of Fraud Detection Methods ”. In 3rd International Conference on Advancements in Smart Computing and Information Security - ASCIS 2024, Marwadi University, Rajkot, Gujarat, India, October 16-18, 2024
- J. Bhatia, D. Patel, J. Patel, M. Kumhar, **U. Chauhan**, H. Trivedi, S. Tanwar, “Performance Evaluation of Text Summarization Models on SAMSUM Chat Data ”. In 3rd International Conference on Advances in Data-driven Computing and Intelligent Systems (ADCIS 2024), BITS Pilani, K K Birla Goa Campus, India September 20-21, 2024
- H. Amin, **U. Chauhan**, S. Patel, “Chatbot For Academic Institutions”. In International Conference on Recent Innovations in Computing, ELTE, Budapest, Hungary 21-22 December, 2023.
- U. Chauhan**, V. Sheth, V. Trivedi, C. Bhatt, and J.M. Corchado, “The Content Based Misinformation Detection for Gujarati Language”. In Sustainable Smart Cities and Territories International Conference, 2023, June. (pp. 298-309). Cham: Springer Nature Switzerland.
- A. Ayenew, **U. Chauhan**, “Amharic Language Hate Speech Detection Using Machine Learning ”, Springer International Conference on Recent Developments in Cyber Security, June 2023, Greater Noida, Delhi-NCR, India
- J. Bhatia, R. Govani, P. Kakadia, Y. Modi, D. Thakkar, H. Bhayani, M. Patel, **U. Chauhan**, and A. Alabdulatif, 2022, October. “IoT-Based Scalable Framework for Pollution Aware Route Recommendation”. In International Conference on Computing, Communications, and Cyber-Security (pp. 131-146). Singapore: Springer Nature Singapore. October 21–22, 2022
- N. Kanzariya, D. Jadhav, G. Lakhani, **U. Chauhan** and L. Gagani, 2022, October. “Coverless Information Hiding: A Review ”In Proceedings of International Conference on Computational Intelligence: ICCI 2021 pp. 109-135. Singapore: Springer Nature Singapore.
- U. Chauhan**, U. Yadav, N. Dave, “A Comparative Analysis for Accuracy and Size of pruned and Unpruned Decision Tree Inducted for Various Datasets ”, January 2014 National Conference on Innovative and Emerging Technologies (NCEIT) pp. 1-4.
- M. Valera, **U. Chauhan**, K. Rathod, “An Efficient Web Recommender System based on Approach of Mining Frequent Sequential Pattern from Customized Web Log”, July 2013 International Conference on Computing Communication and Networking Technologies(ICCNT), Tiruchengode, Tamil Nadu, India, pp. 1-6.
- N. Dave, **U. Chauhan**, D. Varia, “A Review of Spam Filtering Based on Unstructured Classification”, January 2012 National Conference on Technology and Management (NCTM), Visnagar, Gujara,t India, pp. 1-7.
- U. Chauhan**, A. Ganatra, A. Thakkar, “Classification Using Adaptive Decision Tree Induction Algorithm For accuracy and scale-up measure ”, February 2009 International Conference on Data Mining and Technology, Institute of Management, Ghaziabad, Uttar Pradesh, India, pp. 1-7.

## BOOK CHAPTER

---

- R. Parmar, N. Panchal, D. Patel, **U. Chauhan**, J. Bhatia “5G-enabled deep learning-based framework for healthcare mining State of the art and challenges”, Blockchain Applications for Healthcare Informatics, Elsevier, 2022, Vol 1, pp 401-420
- R. Parmar, N. Panchal, D. Patel, **U. Chauhan**, “Ant Colony Optimization for Travelling Salesman Problem with Modified Pheromone Update Formula”, International Conference on Computing, Communications and Cyber-Security (IC4S 2020), Springer Conference, 3-4 October 2020, Ghaziabad, UP,
- R. Kotadiya, H. Patel, S. Bhatt, **U. Chauhan**, “A Brief Survey of Text Summarization Techniques”, International Conference on Computing, Communications and Cyber-Security (IC4S 2019), Springer Conference, 12-13 October 2019 at Chandigarh, India.

Parmar, R., Patel, D., Panchal, N., **Chauhan, U.**, & Bhatia, J. "5G-enabled deep learning-based framework for healthcare mining: State of the art and challenges", Blockchain Applications for Healthcare Informatics, 2022, 401-420.

## EXPERT LECTURE / INVITED TALKS

---

Delivered an Expert Lecture on "Data Warehousing and Data Mining" on 7th October, 2015 at Computer Engineering Department, Indus University, Ahmedabad, Gujarat, India.

Delivered an Expert Lecture on 'Capturing network traffic using Wireshark Packet Analyzer' on 17th April, 2017 during four-day STTP at VGEC, Ahmedabad Gujarat, India.

Delivered an Expert Lecture on 'Plotting Graph using GNU PLOT' on 21st April, 2017 during four-day STTP at VGEC, Ahmedabad Gujarat, India.

Conducted one day workshop on "Hands-on Single Node and Multinode Hadoop Configuration" on 22nd September, 2017 at Faculty of Computer Applications, MSU, Vadodara, Gujarat, India.

Delivered an Expert Lecture on 'Hadoop Multinode Configuration and Map-Reduce framework' on 20th February, 2019 at Faculty of Technology, MSU, Vadodara, Gujarat, India.

Delivered an Expert talk (Online) on "Natural Language Processing: A Practical Aspect" on 7th August, 2020 at Computer Engineering Department, Parul University, Vadodara, Gujarat, India.

Delivered an Expert talk (Online) on 'Practical Use of MongoDB in real life: A case study' on 17th April, 2021 at Computer Engineering Department, Babria Institute of Technology, Vadodara, Gujarat, India.

Delivered an Expert talk (Online) on 'Probabilistic Language Models' on 21st June, 2021 at Computer Engineering Department, Parul University, Vadodara, Gujarat, India.

Delivered an Expert talk (Online) on "Natural Language Processing & Its Applications" on 8th September, 2021 at Computer Engineering Department, DEPSTAR, CHARUSAT, Gujarat, India.

Delivered an Expert talk (Online) on "Building MongoDB ReplicaSet Cluster" on 25th October, 2021 at Computer Engineering Department, DEPSTAR, CHARUSAT, Gujarat, India.

Delivered an Expert talk (Online) on "Building MongoDB ReplicaSet Cluster" on 2nd December, 2021 at Indrashil University - Rajpar, Gujarat, India.

Delivered an Invited talk on "Natural Language Processing - An Introduction" on 16th April, 2024 at the Information Technology Department, Faculty of Technology, DDU, Nadiad, Gujarat, India.

Delivered an Invited talk on "Artificial Emotional Intelligence" on 19th July, 2024 at the Computer Engineering Department, Shankersinh Vaghela Bapu Institute of Technology (SVBIT), Gandhinagar, Gujarat, India.

Delivered an Invited talk on "Artificial Emotional Intelligence" on 13th September, 2024 at the Computer Engineering Department, Faculty of Technology, Silver Oak University, Gujarat, India.

## PROFESSIONAL ACTIVITIES

---

Co-chaired the paper presentation for the track "Emerging trends in Machine Learning and Deep Learning" in the International Conference on Machine Learning and Data Engineering (ICMLDE 2024), 28th-29th November 2024, Dehradun, India

Member of Technical Program Committee for "International Conference on Computing, Communications, and Cyber-Security" (IC4S 2019), Chandigarh-India 12-13 October, 2019

Member of Technical Program Committee for International Conference on "Computing, Communications, and Cyber-Security" (IC4S 2020), Online Platform 03-04 October, 2020

Reviewed some research papers for the “International Conference on Data Science and Intelligent Applications ”(ICDSIA-20), Springer Conference, 24-25 January 2020 at Gandhinagar Institute of Technology, Gandhinagar, Gujarat, India.

Reviewed some research papers for the International Conference entitled , ICSTEM 2019, organized by Education Department, Government of Gujarat held on 17th January, 2019.

Reviewed some research papers for the “International Conference on Engineering and Technology: SMART ENGINEERING ”, 16-18 September 2019 at Parul University,Vadodara, Gujarat, India

Reviewed some research paper for the “National Conference on Emerging Research Trends in Engineering ”(NCERTE) , 04-06 April, 2016 at VGEC, Ahmedabad, Gujarat, India

Reviewed some research paper for the “International Conference on Research and Innovations in Science, Engineering & Technology ”(ICRISET) , 04th - 05th September, 2020, at BVM, vallabh Vidyanagar, Gujarat, India

Reviewed some research paper for the International Conference on “International Conference on Artificial Intelligence and Machine Vision ”(AIMV 2021) , 24th - 26th September, 2021 at PDEU, Gandhinagar, Gujarat, India

## EXTRA-CURRICULAR

---

Organized an expert lecture on **Simulation of Network topologies and Programming IoT Devices** (Online Platform) 29 August 2020

Organized STTP on **Computer Network: Hands-on using Networking Tools** at VGEC, Ahmedabad August 2020

## PROFESSIONAL BODY MEMBERSHIP

---

Member of the Indian Society of Technical Education (ISTE) Life Membership - LM 126940

Member of the Association for Computing Machinery (ACM), 2021 - 2022

## MOOC / STTP / WORKSHOP ATTENDED

---

Mobile Application Development, Organized and Co-ordinated by Vishwakarma Government Engineering College, Ahmedabad In association with GTU, Ahmedabad 20 June 2011 - 24 June 2011

Embedded System Design, Organized and Co-ordinated by Vishwakarma Government Engineering College, Ahmedabad and Edutech Learning Solution PVT. LTD., Vadodara 25 June 2012 - 29 June 2012

Induction Training Program( Phase-I), Organized by NITTTR, Bhopal (MHRD, INDIA) and Co-ordinated by NITTTR Extension Center, RCTI, Ahmedabad 23 July 2014 - 04 July 2014

Computer Algorithms and Application, Organized and Co-ordinated by Birla Vishvakarma Mahavidyalaya (BVM), Vallabh Vidyanagar 29 December 2014 - 02 January 2015

Optimization: Theory and Engineering Practice, Organized and Co-ordinated by Vishwakarma Government Engineering College, Ahmedabad, 07 December 2015 - 19 December 2015

Data Mining and Machine Learning, Organized and Co-ordinated by Indian Institute of Technology, Gandhinagar, 06 June 2016 - 18 June 2016

Internet of Things: Application and Research Perspective, Organized and Co-ordinated by LDRP Institute of Technology and Research, Gandhinagar, 12 June 2017 - 18 June 2017

Introduction to Machine Learning, Organized by NPTEL Online Certification and Co-ordinated by Indian Institute of Technology, Madras 27 January 2020 - 20 April 2020

COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR), organized by Gujarat Student Startup and Innovation Hub (i-Hub) 06 July 2020 - 14 September 2020

Unlimited Digital Advanced Yearlong Academic Method of Learning (UDAYAM), organised by Knowledge Consortium of Gujarat, Ahmedabad and HRDC, Gujarat University  
28 July 2020 - 18 August 2020

Applied Natural Language Processing, Organized by NPTEL Online Certification and Co-ordinated by Indian Institute of Technology, Madras  
14 September 2020 - 5 December 2020

Natural Language Processing, Organized by NPTEL Online Certification and Co-ordinated by Indian Institute of Technology, Kharagpur  
26 July 2021 - 23 October 2021

Demystifying Networking, Co-ordinated by NPTEL Online Certification and Co-ordinated by Indian Institute of Technology, Bombay  
25 July 2022 - 19 August 2022

Education for Sustainable Development by NPTEL Online Certification and Co-ordinated by Indian Institute of Technology, Kharagpur  
20 January 2025 - 11 April 2025

Advancements in Data Science and Machine Learning: Concepts to Applications by Government Engineering College, Modasa, Gujarat  
8 November 2025 to 13 November 2025

Introduction to Large Language Models, by NPTEL Online Certification and Co-ordinated by Indian Institute of Technology, Delhi and Online Certification and Co-ordinated by Indian Institute of Technology, Bombay  
19 January 2026 to 10 April 2026

Foundation of Quantum Technologies QT-00 & QT-01 at i-Hub, Ahmedabad Organized by CTE, Government of Gujarat  
20 April 2026 to 24 April 2026

## **SUBJECTS I HAVE TAUGHT**

---

Database Management System, Computer Networks, Information and Network Security, Big Data Analytics, C Programming Language, Advance Computing Technology, Software Engineering, System Programming

## **DECLARATION**

---

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.