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Designation	:	Associate Professor	
Department	:	Computer Engineering	
Date of Joining the Institution	:	10/01/2022	
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Google Scholar Link:		<a href="https://scholar.google.com/citations?hl=en&amp;user=Na8n4cUAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=Na8n4cUAAAAJ</a>	
Researchgate Link:		<a href="https://www.researchgate.net/profile/Nilesh-Patil-32">https://www.researchgate.net/profile/Nilesh-Patil-32</a>	
ORCID		0000-0001-8335-4426	
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Qualifications with Class / Grade	:	<ol style="list-style-type: none"> <li>1. Ph.D. (Computer Engineering)</li> <li>2. M.E. (Information Technology)</li> <li>3. B.E. (Information Technology)</li> </ol>	
Total Experience in Years	:	<b><u>Teaching: 20 years</u></b>	
Papers Published in Journal:	:	<ol style="list-style-type: none"> <li>1. Ananya Doshi, Vansh Dodiya, Hetansh Shah, Kranti Ghag , Nilesh Patil, Meera Narvekar, “Fabric Quality Assurance System: Defect Detection and Image Reconstruction using Gen AI”, International Journal of Intelligent Systems and Applications in Engineering, 2024, Vol. 12, Issue 4, pp. 2428 – 2436.</li> <li>2. Aryan Kesarkar, Yash Chavan, Nilesh Patil, “Improving Forest Fire Management: Early Detection Through Image Classification And Predictive Modeling”, Educational Administration: Theory and Practice, 2024, Vol. 30, Issue 6, pp. 4354-4364, <b>DOI: 10.53555/kuvey.v30i6.6906</b></li> <li>3. Darsheel Sanghavi, Daxay Sanghavi, Nilesh Patil, “Early-Stage Diabetes mellitus Risk Prediction And Symptom Association: A Comparative Analysis Using Feature Importance”, Educational Administration: Theory and Practice, 2024, Vol. 30, Issue 1, pp. 2997 – 3006, <b>DOI: 10.53555/kuvey.v30i1.6939</b></li> <li>4. Nilesh Patil, Aaditya Gadiyar, Harsh Khatri, Darshan Mehta, “MedicHub – Disease Detection Using Deep Learning”, 2023, Mapana Journal of Sciences, 2023, Vol. 22, Special Issue 2, pp. 37-61, <b>DOI: 0.12723/mjs.sp2.3</b></li> <li>5. Bhoomi Shah, Pratik Kanani, Poonam Joshi, Gayatri Pandya, Dhanashree Kulkarni, Nilesh Patil, Lakshmi Kurup, “Traditional Indian food classification using Shallow Convolutional Neural Network”, International Journal of Intelligent Systems and Applications in Engineering (IJISAE), 2024, Vol. 12, Issue 12, pp. 769-774.</li> <li>6. Prince Williams, Nilesh M. Patil, Allanki S. Rao, Chandra M. V. S. Akana, K. Soujanya, &amp; Aakansha M. Steele, “Transformative effects of connectivity</li> </ol>	

<p>Papers Presented in Conferences</p>	<p>technologies on urban infrastructure and services in smart cities”, The Scientific Temper, December 2023, Vol. 14, Issue: 04, pp. 1257–1263. <b>DOI: 10.58414/SCIENTIFICTEMPER.2023.14.4.29</b></p> <p>7. Nilesh M. Patil, P M. Krishna, G. Deena, C Harini, R.K. Gnanamurthy, &amp; Romala V. Srinivas, “Exploring Real-Time Patient Monitoring and Data Analytics with IoT-Based Smart Healthcare Monitoring”, The Scientific Temper, December 2023, Vol. 14, Issue: 04, pp. 1196–1201. <b>DOI: 10.58414/SCIENTIFICTEMPER.2023.14.4.21</b></p> <p>8. Anand Karuppannan , K. Subba Reddy , Nilesh Madhukar Patil and Chandra Mouli Venkata Srinivas Akana, “Spectral-Spatial Deep DenseNet Learning for Multispectral Image Classification and Analysis”, ICTACT Journal on Image and Video Processing, August 2023, Vol. 14, Issue 1, pp. 3073 – 3078. <b>DOI: 10.21917/ijivp.2023.0437</b></p> <p>9. M. Velammal , Thiyam Ibungomacha Singh , Nilesh Madhukar Patil and Subharun Pal, “Multiframe Image Restoration using Generative Adversarial Networks”, ICTACT Journal on Image and Video Processing, August 2023, Vol. 14, Issue 1, pp. 3043 – 3048. <b>DOI :10.21917/ijivp.2023.0432</b></p> <p>10. Prasad Padavala Sai, Nair Prabha Shreeraj, Patil Anagha, Patil Nilesh Madhukar, Chaturvedi Abhay, Taqui Syed Noeman, Almoallim Hesham S., Alharbi Sulaiman Ali, Raghavan, S.S., “An application development for smart monitoring of COVID patients using six stage microbiological health systems”, Journal of Intelligent &amp; Fuzzy Systems, August 2023, Vol. 45, No. 3, pp. 4383-4393. <b>DOI: 10.3233/JIFS-231899</b></p> <p>11. Kanani Pratik, Patil Nilesh, Shelke Vishaka, et al., “Improving QoS of DSDV protocol to deliver a successful collision avoidance message in case of an emergency in VANET”, Soft Computing Journal, June 2023. <b>DOI: 10.1007/s00500-023-08766-w</b></p> <p>12. Ishan Madhani, Dhruv Bheda, Akshat Parekh, Gautam Gala, Dr. Nilesh Patil, “Intelligent Tour Guide”, Machine Intelligence Research, May 2023, Vol. 17, No. 2, pp. 9585 – 9595.</p> <p>13. Dr. Avaneesh Singh, Dr. Nilesh Patil, Dr. Vajid N. Khan, Mr. Mohit Chowdhary (2022), “E-Learning Analysis using Machine Learning Algorithm”, NeuroQuantology, Vol. 20, Issue 8, pp. 2370 – 2380. <b>DOI: 10.14704/nq.2022.20.6.NQ22259</b></p> <p>1. Devesh Bhayani, Arham Shah, Dev Pandey, Bhavya Mehta, Nilesh Patil, “Code Vulnerability Detection using Instruction-Tuned LLMs”, International Conference on Visual Analytics and Data Visualization (ICVADV-2026), Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, 24-26 February 2026.</p> <p>2. Anay Shah; Javal Shah; Forum Sanjanwala; Anaya Jain; Nilesh Patil; Sridhar Iyer, “Eco-Optimized Routing for Urban Mobility”, International Conference on Information, Implementation, and Innovation in Technology (I2ITCON), International Institute of Information Technology (I<sup>2</sup>IT), Pune, 04-05 July 2025. <b>DOI: 10.1109/I2ITCON65200.2025.11210733</b></p> <p>3. Jaiwin Mehta, Swayam Mehta, Rushaan Pai, Vidhi Shah, Nilesh Patil, Kiran Bhowmick, “Fusion-Based Data Poisoning Detection for Scalable and</p>
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Interpretable ML Security”, Springer 2<sup>nd</sup> International Conference on Information Technology and Intelligence (ITI 2025), National Institute of Technology, Agartala, India, 21-22 November 2025.

4. Achintya Shah, Yashvi Shah, Hrushik Mehta, Dhruvil Panchal, Nilesh Patil & Deepali Patil, “Benchmarking Large Language Models: A Comprehensive Comparison of Architectures and Their Implications”, Congress on Smart Computing Technologies. CSCT 2024. Smart Innovation, Systems and Technologies, vol 122. Springer, Singapore. [https://doi.org/10.1007/978-981-96-6250-0\\_42](https://doi.org/10.1007/978-981-96-6250-0_42)
5. Nilesh Patil, Ananya Doshi & Vansh Dodiya, “Pneumonia Detection Using Deep Neural Networks Based on Chest X-ray Images”, Artificial Intelligence and Sustainable Computing. ICSISCET 2023. Algorithms for Intelligent Systems. Springer, Singapore. [https://doi.org/10.1007/978-981-97-0327-2\\_29](https://doi.org/10.1007/978-981-97-0327-2_29)
6. Neel Kothari, Syed Mohammed Raza Rizvi, Praniket Walavalkar, Pratik Kanani, and Nilesh Patil, “Improving Chronic Kidney Disease Prediction using ANN with Normalization”, Springer 4<sup>th</sup> International Conference on Data Science and Applications (ICDSA 2023), Data Science and Applications. ICDSA 2023. Lecture Notes in Networks and Systems, vol 818. Springer, Singapore. [https://doi.org/10.1007/978-981-99-7862-5\\_42](https://doi.org/10.1007/978-981-99-7862-5_42)
7. Dishant Zaveri, Hemant Singh, Sayali Chaskar, Rihansh Hingad, Shubham Mehta & Nilesh Patil, “Utilizing LLM and Deep Learning Strategies to Amplify Algorithmic Proficiency in Detecting Complex Patterns of Insider Trading Fraud”, Proceedings of International Conference on Intelligent Vision and Computing (ICIVC 2023). ICIVC 2023. Proceedings in Adaptation, Learning and Optimization, vol 19. Springer, Cham. [https://doi.org/10.1007/978-3-031-71388-0\\_17](https://doi.org/10.1007/978-3-031-71388-0_17)
8. Chaitya Shah, Aesha Shah, Lokita Varma, Sarthak Bhan and Nilesh Patil, “Sentence Restructuring with User-Controlled Difficulty using NLP”, IEEE 14<sup>th</sup> International Conference on Computing Communication and Networking Technologies (ICCCNT -2023), IIT - Delhi, Delhi, India, July 6-8, 2023.
9. Khushi Chavan, Glen Dhingra, Ahmed Solkar and Nilesh Patil, “Kathak Dance Movement Recognition and Correction Using Google’s Mediapipe”, IEEE 14<sup>th</sup> International Conference on Computing Communication and Networking Technologies (ICCCNT -2023), IIT - Delhi, Delhi, India, July 6-8, 2023.
10. Nilesh Patil, Aaditya Gadiyar, Harsh Khatri, Darshan Mehta, “MedicHub – Disease Detection Using Deep Learning”, Springer International Conference on Computational Sciences and Sustainable Technologies (ICCST-2023), Christ Deemed to be University, Bangalore and Modern College of Business and Science, Muscat, Oman, May 8-9, 2023.
11. Lokita Varma, Sarthak Bhan, Kush Maniar, Nilesh Patil, “Interactive Gaming experience in VR Integrated with Machine Learning”, Springer International Conference on Advances and Applications of Artificial Intelligence and Machine Learning, Sharda School of Engineering & Technology, Sept 16-17, 2022.
12. Pranav Gangurde, Melita Japhet, Clafacio Lobo, Nilesh Patil, Prachi Patil,

		“Restorage-Blockchain Based Decentralized Resume Storage Application”, IEEE World conference on Applied Intelligence and Computing (AIC 2022), Rajkiya Engineering College, Sonbhadra, India, June 17 – 19, 2022.				
Area of Specialization						
Professional Memberships	:	Life Member of ISTE Senior Member of IEEE Membership No.: LM132785 Membership No.: 93096100				
Subjects Taught		<p><b><u>UG Level:</u></b></p> <ul style="list-style-type: none"> <li>• Big Data Infrastructure</li> <li>• Blockchain Technology</li> <li>• Information Security</li> <li>• DevOps Laboratory</li> <li>• Computer Networks</li> <li>• Data Structures</li> </ul> <p><b><u>PG Level:</u></b></p> <ul style="list-style-type: none"> <li>• Algorithms and Complexity</li> <li>• Big Data Infrastructure</li> </ul>				
Projects Guided	:	<p><b><u>UG Level: 50</u></b></p> <p><b><u>PG Level: 04</u></b></p>				
Recommended Students for Higher Education		<table border="1"> <thead> <tr> <th><b><u>Name of the Student</u></b></th> <th><b><u>University/Industry</u></b></th> </tr> </thead> <tbody> <tr> <td>More than 50+ Students Recommended for Different Universities</td> <td> <ul style="list-style-type: none"> <li>• Massachusetts Institute of Technology (MIT)</li> <li>• Stanford University</li> <li>• Carnegie Mellon University</li> <li>• University of California, Berkeley</li> <li>• University of Illinois Urbana-Champaign</li> <li>• Georgia Institute of Technology</li> <li>• University of Texas at Austin</li> <li>• Purdue University</li> <li>• University of Cambridge</li> <li>• Imperial College London</li> <li>• Dartmouth College</li> <li>• University of Pennsylvania</li> </ul> </td> </tr> </tbody> </table>	<b><u>Name of the Student</u></b>	<b><u>University/Industry</u></b>	More than 50+ Students Recommended for Different Universities	<ul style="list-style-type: none"> <li>• Massachusetts Institute of Technology (MIT)</li> <li>• Stanford University</li> <li>• Carnegie Mellon University</li> <li>• University of California, Berkeley</li> <li>• University of Illinois Urbana-Champaign</li> <li>• Georgia Institute of Technology</li> <li>• University of Texas at Austin</li> <li>• Purdue University</li> <li>• University of Cambridge</li> <li>• Imperial College London</li> <li>• Dartmouth College</li> <li>• University of Pennsylvania</li> </ul>
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Institute/Department Responsibility handled:		<ol style="list-style-type: none"> <li>1. NBA Criteria-2 Coordinator</li> <li>2. NAAC Criteria-5 Coordinator</li> <li>3. IQAC Member</li> <li>4. In-charge of DJS Consulting Group (DCG)</li> <li>5. Department NEP Coordinator</li> <li>6. Department Term Test Coordinator</li> <li>7. Syllabus Setter</li> </ol>				