

# Vikas Chauhan

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## EDUCATION

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- **Indian Institute of Technology** Indore, India  
*Ph.D. Candidate; CGPA: 8.63/10.0* July 2017 – Present
- **Indian Institute of Information Technology and Management** Gwalior, India  
*Master of Technology in Computer Science and Engineering; CGPA: 8.47/10.0* Aug. 2014 – July 2016
- **Kumaon Engineering College** Dwarahat (Almora), India  
Uttarakhand Technical University Dehradun  
*Bachelor of Technology in Computer Science and Engineering; CGPA: 74.83/100* Aug. 2007 – July 2011

## WORK EXPERIENCE

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- **Madhav Institute of Technology & Science** Gwalior, India  
*Assistant Professor* July 2016 - May 2017
- **Infosys Limited** Hyderabad, India  
*Senior System Engineer* Feb. 2012 - July 2014

## RESEARCH INTEREST

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- Machine Learning and Deep Learning
- Multi-label Classification, Noniterative learning
- Artificial Intelligence in Healthcare

## HONOURS AND AWARDS

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- Invited for an expert lecture on machine learning in ACM Student Chapter 2021 at Indira Gandhi Delhi Technical University For Women Delhi, India on June 2021.
- Participated in Innovations in Software Engineering Conference, (ISEC) organised at Indian Institute of Information Technology Jabalpur on February 2020.
- Attended the first workshop on "Transforming India with AI" at Indian Institute of Technology Jodhpur on 08 & 09 August 2019.
- Qualified University Grants Commission of India-National Eligibility Test (UGC-NET) in two successive years, 2016 and 2017.
- Ranked among top 5% students of India in All India Engineering Entrance Examination (AIEEE) 2007.
- Ranked among top 1% students of India in Graduate Aptitude Test Engineering (GATE) in 2014.
- Received Merit scholarship in B. Tech. first year provided by the Uttarakhand Technical University Dehradun and Government of Uttarakhand.
- Participated in National Children Science Congress at Cotton University, Guwahati in 2006.

## CERTIFICATIONS

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- completed AI for Medical Diagnosis Specialization of 3 courses by deeplearning.ai offered through Coursera on September 2021.
- completed Generative Adversarial Networks (GANs) Specialization of 3 courses by deeplearning.ai offered through Coursera in December 2020.
- completed Probabilistic Graphical Models Specialization of 3 courses by Stanford University offered through Coursera in October 2020.
- completed Bayesian Methods for Machine Learning course by National Research University Higher School of Economics offered through Coursera in May 2020.
- completed Academic English Writing Specialization of 5 courses by the University of California, Irvine offered through Coursera in February 2020.
- completed TensorFlow Developer Specialization of 4 courses by deeplearning.ai offered through Coursera in December 2019.
- completed the Deep Learning specialization of 5 courses by deeplearning.ai offered through Coursera in July 2019.
- completed a Machine Learning course taught by Professor Andrew NG by Stanford and offered through Coursera in June 2019.
- completed the specialization of Mathematics course for Machine Learning of 3 courses by Imperial College, London, and offered through Coursera in May 2019.

## TECHNICAL SKILLS

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- **Programming Languages:** C, Java, Matlab, and Python
- **Tools or Framework Expertise:** Pytorch, Tensorflow, Matlab, Eclipse, AndroidStudio, and LaTeX.

## TEACHING ASSISTANTSHIP

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Session	Course	Course Name	Institute
Fall 2019 Fall 2018	CS 207	Database and Information System Course Coordinator: Dr. Aruna Tiwari	Indian Institute of Technology Indore
Spring 2019 Spring 2018	CS 304	Computational Intelligence Course Coordinator: Dr. Aruna Tiwari	Indian Institute of Technology Indore
Fall 2017	CS 103	Computer Programming Course Coordinator: Dr. Abhishek Srivastava	Indian Institute of Technology Indore

## PROFESSIONAL SERVICES

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- Reviewer of various SCI-indexed journals and international conferences viz., Soft Computing, Journal of BigData, International Joint Conference on Neural Network (IEEE-IJCNN), and International Conference on Soft Computing for Problem Solving (SocProS).
- Provided technical assistance in 3-Days Active Learning Course on How to do good research? and How to write papers/ thesis using Latex?, Sponsored by Technical Education Quality Improvement Programme India (TEQIP) organized at IIT Indore from March 25 to 27, 2019.
- Provided technical assistance in a Course on Fundamentals of Data Analytics Sponsored by Technical Education Quality Improvement Programme India (TEQIP) organized at IIT Indore from 30 November to 03 December 2019.
- Provided secretarial and technical assistance in 10<sup>th</sup> International Conference on Soft Computing for Problem Solving (SocProS) international conference 2020 organized at IIT Indore from 18 to 20 December, 2020.

### Journal Publications

- V. Chauhan and A. Tiwari, Randomized neural networks for multilabel classification, *Applied Soft Computing*, vol. 115, pp. 108184, 2022 (Elsevier).
- V. Chauhan, A. Tiwari, N. Joshi, and S. Khandelwal Multi-label classifier for protein sequence using heuristic-based deep convolution neural network, *Applied Intelligence*, vol. 52, pp.2820-2837, 2022 (Springer).
- V. Chauhan, R. Gaur, A. Tiwari, and , A. Shukla Real-time BigData and Predictive Analytical Architecture for healthcare application, vol. 44(237) pp.1-12, 2019 (Springer).

### Conference Publications

- V. Chauhan and A. Tiwari, On the Construction of Hierarchical Broad Learning Neural Network: An Alternative Way of Deep Learning, *IEEE Symposium Series on Computational Intelligence (IEEE SSCI-2018)*, Bengaluru, India, pp. 182-188, November, 2018. (Flagship annual international conference sponsored by the IEEE Computational Intelligence Society).
- V. Chauhan, A. Tiwari, and S. Arya Multi-Label classifier based on Kernel Random Vector Functional Link Network, *IEEE International Joint Conference on Neural Networks (IEEE IJCNN-2020)*, Glasgow, UK., pp. 1-7, July, 2020. (Flagship annual international conference sponsored by the IEEE Computational Intelligence Society).

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### REFEREES

#### Dr. Aruna Tiwari

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Indian Institute of Technology Indore  
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