CURRICULUM VITAE

Dr. ASHISH NAINWAL

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Professional & Educational Qualification:

- PhD from G B Pant Engg. College Pauri (Uttarakhand Technical University) in 2022 **Thesis Topic**-Feature Extraction and Interpretation of ECG signals.
- M.Tech (Digital Signal Processing) from G B Pant Engg. College Pauri (Uttarakhand Technical University) with 80.80% in 2011(**Gold Medalist**).
- B. Tech (Electronics and Communication Engineering) from UP Technical University, Lucknow with 75.30% in 2009.
- Senior Secondary from UA Board with 76.20% in 2004.

Work Experience:

Teaching:
- **Assistant Professor** in ECE dept. at FET, Gurukul Kangri deemed to be University, Haridwar.
  Duration: August 2012-Present.
  Course Taught:
  Microprocessor, Biomedical Signal Processing, Digital Electronics, Soft computing.

Industrial:
- **Embedded R & D Engineer** in 'Nippon instruments (I) private Ltd.',Mumbai.
  Duration: August 2011 – August 2012.

Additional Activities:
- Start up coordinator of IIC Gurukul Kangri deemed to be University, haridwar.
- Placement coordinator of ECE, FET Gurukul Kangri deemed to be University, haridwar.

Patent :
- Australian patent no. 2021105103 granted "Wireless charging device with built in Power backup" 13 aprail 2022.
- Indian patent no. 202111059226 published "Implementation of steganography technique using java " 19 deccember 2021.
- Indian patent no. 202111026981 published "Cloud Native Server Warrenty Synchronisation , Paperless and Ease of management for Common House Appliance V Laser Etched QR/BAR/Data Matrix" July 2021.
- Republic of South Africa Patent no. 2021/04351 granted "Method and System for Energy Detection" 25 august 2021.

Publication:

Journal

- S Kumar, A Nainwal "A Kumar Production and optimization of soybean biodiesel production at fixed temperature 50° C with RSM and ANN", Environmental Science and Pollution Research 2025, 1-11(**Scopus Indexed**).
- Ashish Nainwal, Yatindra Kumar, and Bhola Jha "An ECG classification using DNN classifier with modified pigeon inspired optimizer", 2022, 81(7), pp. 9131–9150 (**SCIE Indexed, Impact Factor-2.577**).
- Ashish Nainwal, Yatindra Kumar, and Bhola Jha "Arrhythmia classification based on improved monarch butterfly optimization algorithm" Journal of King Saud University - Computer and Information Sciences, 2022 (**SCIE Indexed, Impact Factor-8.839**).
- Ashish Nainwal, Gorav kumar malik and amrish "Convolution neural network based covid-19 screening model" Advances in Systems Science and Applicationsthis link is disabled, 2021, 21(3), pp. 31–39 (**Scopus Indexed**).
- Ashish Nainwal, Yatindra Kumar, Bhola Jha "ECG Arrhythmia classification Algorithms" published in International Journal of recent Technology and engineering(IJRTE), ISSN:2277-3878, vol. 8 issue -3, September 2019 pp. 6667-6674 (**Scopus Indexed**).
- Ashish Nainwal, Yatindra Kumar, Bhola Jha "Comparative study of LVQ and BPN ECG Classifier" published in International Journal of Computational Systems Engineering,Vol 4 Nos2/3 ,2018 pp. 140-145 (**UGC care**).
- Ashish Nainwal, Gorav Malik "Review Paper of Fetal Electrocardiogram Extraction Techniques" published in International Journal of Applied Engineering Research ISSN 0973-4562 Volume 9, Number 23 (2014) pp. 19809-19820. (**Scopus Indexed**).

Conferences

International:

- Sunil Kumar, Ashish Nainwal. "Comparative study using RSM ANN and SVM modelling for Biodiesel production from Karanja oil by developed microwave set up." *2023 1st International Conference on Intelligent Computing and Research Trends (ICRT)*. IEEE, 2023.
- Gorav Kumar Malik, Ashish Nainwal, Amrish, Vishwanath Bijalwan "Arm Fracture detection using Deep convolution Neural Network" 24th FAI-ICDBSMD 2021, 25,26,27 june 2021.
- Ashish Nainwal, Yatindra Kumar, Bhola Jha "ECG classification using DNN & GA optimization algorthim" 1st international virtual conference on Integrated intelligence enable networks & Computing(IIENC-2020) 5-7 september 2020.
- Ashish Nainwal, Yatindra Kumar, Bhola Jha "Comparative Study of Tachyarrhythmia ECG and Normal ECG" 2nd International conference on Research in intelligent & Computing in Engineering(RICE-2017) , March 24-26, 2017.
- Ashish Nainwal, Yatindra Kumar, Bhola Jha "Morphological changes in congestive heart failure" International conference on Advance in Compunting , Communication & Automation- ICACCA-2016(IEEE) ,Sep 30-Oct-1,2016
- Gorav malik, Ashish Nainwal "Adaptive Noise Canceller as a Fetal Electrocardiogram Extraction Technique "International Conference on Green Technology for Environment Rehabilitation.

National:

- Ashish Nainwal, Gorav Malik "Fetal ECG Extraction from Maternal ECG using Fast ICA Based Method" National Symposium on instrumentation(NSI-39) ,Oct 15-17, 2014

- Gorav Malik, Ashish Nainwal "Brain Tumour Detection using watershed and Thresholding algorithm based segmentation" National Symposium on instrumentation(NSI-39) ,Oct 15-17, 2014
- Ashish Nainwal, Gorav Malik "Extraction of Fetal ECG using Adaptive Optimization Technique" National Conference on Emerging Trends in Engineering & sciences, Nov 9-10, 2013
- Gorav Malik, Ashish Nainwal "Classification of ECG beat by Discrete wavelet transform" National Conference on Emerging Trends in Engineering & sciences, Nov 9-10, 2013
- Ashish Nainwal, Gorav Malik "Review of Fetal Electrocadiogram Extrection Techniques" National Conference on Progress in Electronics & Allied Sciences, Nov 3-4, 2012
- Manoj Kumar, Ashish Nainwal, Gaurav Malik "Comparative Study for Fetal Electrocardiogram Extraction Techniques" Recent trends in Electronics Engineering Conference 2011.

Conference Proceding:

- Gorav malik ,Ashish Nainwal "Arm Fracture Detection Using Deep Convolution Neural Network Check for updates." Recent Advances in Materials and Manufacturing Technology: Select Proceedings of ICAMMT 2022 (2023): 203.
- Ashish Nainwal, Yatindra Kumar, and Bhola Jha. "ECG Classification Using DNN and GA Optimized Algorithm." Proceedings of Integrated Intelligence Enable Networks and Computing. Springer, Singapore, 2021. 521-527.
- Ashish Nainwal, Yatindra Kumar, Bhola Jha "Comparative Study of Tachyarrhythmia ECG and Normal ECG" published in Annals of computer Science and Information system, Vol. 10, March 2017, ISSN 2300-5963, pp. 63-65.
- Ashish Nainwal, Yatindra Kumar, and Bhola Jha. "Morphological changes in congestive heart failure ECG." Proceedings of 2nd International Conference on Advances in Computing, Communication, & Automation (ICACCA)(Fall). IEEE, 2016 PP-(1-4) (**Scopus Indexed**).

Personal Profile:

Date of Birth	:	21st Oct'1987
Nationality	:	Indian
Gender	:	Male
Marital Status	:	Married
Languages Known	:	English, Hindi

Ashish Nainwal