Bio-Data

1. **Name in**   Dr. Kapil Chaudhary
2. **Date of**   03/07/1984
3. **Place of**   Khedajat, District- Haridwar (Uk)
4. **Mailing Add:** Dr. Kapil Chaudhary, Dep't of CSE, BTKIT
   Dwarahat, Uttrakhand-263653
5. **E-mail**: kapil.cse@gmail.com,9997344490/7252008247
6. **Nationality:**   Indian
7. **Married:**   Yes
8. **Permanent Add**:   Kapil Chaudhary s/o Vinod Kumar, V+PO Khedajat Tehsil
   Roorkee Distt Haridwar 247670

9. **Research Area**: Image Procssing, Statistical Modelling of image, Image Fusion,
   , Image Denoising, Speech Recognisation, Statistical Characterization of
   Wavelet Cofficient .

10. **Educational Qualification:**

Degree/Examination	University/Institution	Year	Disiplne
B.Tech	G.E.I.T Dehradun(HNBGU)	2006	Computer Science&Engineering
M.Tech	G.B.P.E.C Pauri(UK Tech)	2008	Digital Signal Processing
Ph.D	Himalyan University	2016	Image Processing

11. **Experience:**

University/Organisation	Desination	From	To	Nature of work
Roorkee Institute of Technology	Assistant Professor	Februry 2009	16 November 2015	Teaching and Research
HKBK Engg. College	Asst. Prof	July 2016	08-10-2016	Teaching and Research
BTKIT Dwarahat	Asst Prof.	19.11.2016	Present	Teaching and Research

12. **Teaching Experience:** (Subject Taught)
**At Undergraduate
    Level:**
- □ Digital Electronics& Design Aspect
- □ Modelling& Simulation
- □ Computer Organisation
- □ Software Architecture
- □ Microprocessor& System software
- □ Advanced Computer Architecture
- □ System Administration
- □ Compiler Construction
- □ Internet and Web Technology
- □ Digital Image Processing

13. M.Tech Supervision

S.No	Name of Student	Title of Thesis	Supervisor	Joint Supervior	Status of Work
1.	Achint Gupta,GEU (2012)	Performance Analysis of AODV Routing Protocol in VANET(Vehicular Ad-Hoc Network)		Yes	Completed
2	Himanshu Srivastav,KSOU (2011)	Biometric Iris Recognitation	Yes		Completed
3.	Aashish Mishra,UP TECHNICAL UNIV(2012)	Designing High Speed Low Power Flash ADC by Optimizing its Components		Yes	Completed
4.	Primanshu,GEU 2014	Impact of SEP on Heterogeneous Sensor Network Based on Energy Consumption	Yes		Completed
5.	Pallavi Bora BTKIT 2019 Roopali Harboola,Shzee Malik	Evolution and Enhancement of Different Methodology in Image Denoising.	Yes	No	Completed

14. Courses done at PhD Programme

1. Research Methodology
2. Computer Applications in Image Processing
3. Quantitative Analysis

15. Courses done at M.Tech Programme

1. Advanced Digital Signal Processing
2. Digital Signal processors
3. Modelling &Simulation
4. Wireless Communication
5. VLSI Circuit Designing
6. Optical Fibre Communication
7. Digital Communication
8. Digital Image Proessing

16. Research Area of Interest: Image Processing, Statistical Modelling of image, Image Fusion, , Image Denoising, Speech Recognisation, Statistical Characterization of Wavelet Coefficient

17. Current area of Research

Statistical Modelling of Image, Statistical Characterization of Wavelet Coefficient,3D

modelling of real objects in internet,human computer interaction

18. Journal Publications

1. Kapil Chaudhary,Anirudh Gupta,Amit Kumar Bansal " Estimating Noise in Camera Sensor by Modelling a Noise Cancellation System" ,Wireless Personal Communications,h-index 80, IRE-D-20-02859R7, Springer Science+Business Media LLC, 1 New York Plaza, New York, NY 10004, U.S.A.,June 2022

2. Manoj,Kapil Chaudhary "Performance Optimization in Cognitive Radio Network for mobility & Energy Efficiency", WIRE-D-21-05063S3Wireless Personal Communications. ,July 2022

3. Kapil Chaudhary, "Flows in DnCNN Pros and Cons restated", International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 9, December-2021, Page No. 1918-1921.

4. Pallavi Bora, Kapil Chaudhary,"Improved Image Denoising Methodology using Deep CNN Bilateral Filter Compared to Additional Methods" 'International Journal of Engineering and Advanced Technology (IJEAT)', ISSN: 2249-8958 (Online), Volume-10 Issue-5, June 2021, Page No. 191-196.

5. Kapil Chaudhary,Dr. Narendra Kumar,Dr.Vipin Kumar Saini, "Adaptive Denoising of CFA Data for Digital Camera Using Diffusion Map", International Journal of Emerging Trends & Technology in Computer Science ISSN 2278- 6856,Vol 2 July 2014.

6. Kapil Chaudhary,Dr. Narendra Kumar,Dr.Vipin Kumar Saini, "A New Approachto Image Denoising based on Diffusion-MLP-LMMSEScheme".International Journal of Software and Web Sciences,IASIR,ISSN(print):2279-0063,ISSN(online) 2279-0071

7. Kapil Chaudhary,Dr. Narendra Kumar, "An Neural Based Approach for Optimizing Diffusion Wavlets Cofficients (An Application to image Denoising)", (IJETTCS),Volume 4, Issue 3, May - June 2015

8. Ashish Mishra, Dr. V.K Pandey, Kapil Chaudhary" Designing High Speed FlashADC by Optimizing its Components " ,IJETTCS, Volume 1, Issue 2, July –August 2012, ISSN 2278-6856

19. International Conferences/National Conference/Symposium

1. Pallavi Bora ,Kapil Chaudhary, Survey Paper on Image De-noising Methodology, CIMS 2020,NIT Jalander International Conference. on. Industrial and Manufacturing Systems , 9-11 October 2020

2. Kapil Chaudhary, Survey of Image Removing clatter Techniques(Towards Deep CNN as a rigid solution to Image removing clatter), International conference,ICATACE-2018, .BTKIT Dwarahat

3. Kapil Chaudhary" Exploring for Possibilies of E-Rakhi (An aplication of Computer Vision&Mixed Reality). Diamond Jubilee National Conference of Electronics Engineering(NCEE 2019) to be held at MANIT, Bhopal during Oct 3-4, 2019.

4. Kapil Chaudhary,Dr. Narendra Kumar,Dr.Vipin Kumar Saini, "Image Denoising Based On Diffusion Wavelet, MLP-LMMSE Algorithm ,2nd International Conference on recent Trends in Communication and Computer Networks,CommNet 2014/AET 2014(Scopus Indexed),held on Nov 29-30 2014, Hyderabad, India.

5. Kapil Chaudhary,Dr. Narendra Kumar,Dr.Vipin Kumar Saini "Diffusion Based Adaptive Denoising of CFA Image Data for Single Sensor Devices. National Conference on Recent Trends and Explorations in Mobile Networking and Green Energy,9-10 Augest 2014,Organised by Phonics Roorkee

6. Kapil Chaudhary,Dr. B.K Kaushik,Dr. Kirat Pal," Design of High Speed Optimized Flash ADC", CNC 2011, CCIS 142, pp. 260–263, 2011.(Indexed in Springer Digital library)

7. Kapil Chaudhary,Dr. B.K Kaushik,.Dr. Kirat Pal, , An Optimizing Approach for Designing High Speed Flash ADC using 0.35μm, Silver Jubilee International Conference on Communication Technologies and VLSI Design (CommV'09) VIT University, Tamilnadu, October 6-10, 2009.

8. Kapil Chaudhary,Dr. B.K Kaushik,.Dr. Kirat Pal, , An Optimized Methodology for Designing High Speed Flash ADC Components, ICVLSICOM-10(International Conference on VLSI Design & Communication Systems) , 8th to 10th January 2010
Chennai, Tamilnadu, India

9. Kapil Chaudhary,Dr. B.K Kaushik,.Dr. Kirat Pal, , Designing High Speed Flash ADC Components using 0.75 μm, NCET 2009 , MIT ,Moradabad, UP, India

10. Kapil Chaudharyt"Survey of Image Removing clatter Techniques(Towards Deep CNN as a rigid solution to Image removing clatter)" ICATACE-2018.BTKITDwarahat.

11. Kapil Chaudhary" Exploring for Possibilies of E-Rakhi (An aplication of Computer Vision&Mixed Reality). Diamond Jubilee National Conference of Electronics Engineering(NCEE 2019) to be held at MANIT, Bhopal during Oct 3-4, 2019.

20. Patent Filed . S UNLIGHT PREDICTION IN IMAGE USING AI WEBCAM,
Application Number 02241036226,Reference Number 12/4769/2022/CHE, June 2022

21. FDP /Workshop Attended

Title of seminar/conference/ Workshop	Organized by	Dates	Venue
1. National Workshop on Advanced Embedded System 2. National Workshop on Computational Intelligience&Reasearch Using MATLAB&its Applications 3. National Workshop on Research Methodology	1. ECE Department ,B.T.K.I.T Dwarahat 2. CSE deptt. B.T.K.I.T. Dwarahat 3. ME deptt. B.T.K.I.T.	28-30 Nov 2016 3 Dece Mber 2016	1. ECE Department,BT KIT Dwarahat 2. CSE Deptt.,BTKIT Dwarahat ME deptt.

in Engineering	Dwarahat	30 December 2016	B.T.K.I.T. Dwarahat
4.National Workshop on Image Processing Using MATLAB	ECE Department,BTKIT,Dwarahat	27-29 Jan 2017	ECE Department,BTKIT,Dwarahat
5.Advancement in Signal Processing Optimization Techniques	IIT Rorrkee	3 June -7 Jun 2019	ECIT Academy ,IIT Roorkee
6. National Workshop on Wireless Technologies	ECE Department,BTKIT,Dwarahat	18-20 Februry	ECE Department,BTKIT,Dwarahat
7.Introduction to Programming:A Pedagogical Approach	MNIT Bhopal	17-21 June 2019	Department of ECE MNIT Bhopal
8.CEP course on Faculty – Student Collaborative Pedagogy with Emphasis on Signal Processing	IIT Bombay	17-19 March 2017	Department of EE, IIT Bombay,
9.NBA&AICTE Mandate	CSE Department ,BTKIT Dwarahat	21-23 December 2017	CSE Department,BTKIT,Dwarahat
10.National Workshop on Cyber Crime&Security	Jointly by CSE Dept of BTKIT,Dwarahat, CSE Dept of MNIT Bhopal	20-21 March 2018	CSE Department,BTKIT,Dwarahat
11.Workshop on Outcome Based Education	BTKIT Dwarahat	21-22 March 2018	ME Dept BTKIT,Dwarahat
12.Summer Workshop on Active Learning,Autonomy,Acadamic Governence and R&D	DOMS,IIT Roorkee	2-6 July 2018	DOMS,IIT Roorkee

13.Discrete Mathaematics&its application	NITTR Kolkata	13 Jan 2020 17	Dept of CSE,NITTR Kolkata

22. FDP Organised
1. Coordinator "Technology as a Bridge in Different Domains of Life During Covid-19", October 19-23, 2020,BTKIT Dwarahat
2. Co-Coordinator "Advanced Research Trends in Artificial Intelligence, Pattern Recognition and Image Processing September 25-30, 2020 BTKIT Dwarahat"

23. Reviewer

[1] International Conference IACCI 2015 , Proceedings
published in Digital Library of IEEE .
[2].IET Computer Vision Journal,UK

24. Any Other Information
1. Worked as second HOD CSE Department RIT Roorkee from 2010-2015
The following laboratories conducted at UG Level:
   1. Digital Electronics Design Lab
   2. Computer Organisation Lab
   3. Project Lab of CSE&ECE Department

25. Administrative responsibility carried out

S.NO	Position Held	Duration	Responsibility
1.	HOD IT Department RIT Roorkee	July 2010 July 2011	Departmental Work
2.	Hostel Warden,New Boys,Shivalik, BTKIT Dwarahat	December 2016 August 2019	Administrative

(Dr. Kapil Chaudhary)