

## BIO- DATA

1. Name : **ARUNI SINGH**
2. Date of Birth : 22/06/1971
3. Nationality : Indian
4. Present Post held with address : Assistant Professor  
CSE-Deptt., Kamla Nehru Institute of Technology (K.N.I.T.)  
Sultanpur (U.P.) -228118 ,
5. Present Postal Address : 194/1, Old I.T.I. Colony, Laxmanpur, Sultanpur – 228001  
Google Map Link : ‘Technocrat’s Home, Sultanpur’

6. **Educational Qualifications** :

Degree/Diploma	Division /Grade	Year	Subjects Taken	Name of University/Institute
B.E.	I	1995	Computer Engineering	M.M.M. Engg. College, Gorakhpur (U.P.)
M.Tech.	CPI - 8.16	2006	Computer Sc. & Engineering	U.P. Technical University, Lucknow (U.P.)
Ph.D.	Awarded on 22/03/2013	2013	Computer Engineering	I.I.T.( B.H.U.), Varanasi (U.P.)

7. **Professional Experience** :

Address of Organization/Institute	Post Held	Duration		Specific Experience: P.G. Teaching/Research/Industrial
		From	To	
I.T.I. Ltd., Mankapur Gonda (U.P.)	Graduate Trainee	22/05/1993	21/06/1993	Telecommunication cards Manufacturing in SEA plant
I.T.I. Ltd., Mankapur Gonda (U.P.)	Graduate Trainee	20/05/1994	18/06/1994	Mainframe computing in EDP Department
Unikol Bottlers Ltd. Ghaziabad (U.P.)	Computer Engineer	12/06/1995	12/12/1995	Computer Maintenance & Data Processing
J.C.Pvt. Ltd., Jaunpur (U.P.)	Computer Engineer	20/12/1995	26/07/1997	Customer Support Maintenance Engineer
Mohd. Hasan Degree College, Jaunpur (U.P.)	Lecturer & Computer Maint. Er.	28/07/1997	05/01/1998	Computer Sc. Teaching & Computer Maintenance Er.
CSE-Deptt., K.N.I.T., Sultanpur, (U.P.)	Lecturer / Assistant Prof.	06/01/1998	Till Date	Research in Image Processing and Biometrics

## 8. Details of Publications :

	<b>International Journals :</b>
8.1	<b>Aruni Singh</b> , Shrikant Tiwari and Sanjay Kumar Singh, “Dummy Face Database”, <i>International Journal Computer Application</i> , Vol. 3, No. 2, pp. 193-201, 2012, ISSN: 2250 – 1797.
8.2	<b>Aruni Singh</b> , Shrikant Tiwari, Sanjay Kumar Singh: “Vitality Detection in Face Images using Second Order Gradient Method”, <i>International Journal of Computer Applications &amp; Information Technology</i> , Vol. 1, No.2, pp. 96-101, 2012. ISSN: 2278-7720.
8.3	<b>Aruni Singh</b> , Sanjay Kumar Singh and Shrikant Tiwari, “Comparison of Face Recognition Algorithms on Dummy Faces”, <i>International Journal of Multimedia &amp; Its Applications</i> , Vol.4, No.4, pp. 121-135, 2012, ISSN: 0975-5578. DOI : 10.5121/ijma.2012.4411.
8.4	<b>Aruni Singh</b> , Shrikant Tiwari and Sanjay Kumar Singh, “Face Tampering Detection from Single Face Image using Gradient Method”, <i>International Journal of Security and Its Applications</i> , vol. 7, no. 1 , pp. 17-30, 2013, ISSN : 1738-9976.
8.5	Shrikant Tiwari, <b>Aruni Singh</b> , Sanjay Kumar Singh, “Intelligent Method for Face Recognition of Infant”, <i>International Journal of Computer Applications</i> , Vol. 52, No. 4, pp. 36-50, 2012. DOI: 10.5120/8194-1569.
8.6	Shrikant Tiwari, <b>Aruni Singh</b> and Sanjay Kumar Singh, “Fusion of Ear and Soft-biometrics for Recognition of Newborn”, <i>Signal &amp; Image Processing: An International Journal</i> , Vol.3, No.3, pp. 103-116, 2012, ISSN: 0976-710X.
8.7	Shrikant Tiwari, <b>Aruni Singh</b> and Sanjay Kumar Singh, “Integrating Faces and Soft-biometrics for Newborn Recognition”, <i>International Journal of Advanced Computer Engineering &amp; Architecture</i> , Vol.2, No.2, pp. 201-209, 2012, ISSN: 2248-9452.
8.8	<b>Aruni Singh</b> , Sanjay Kr. Singh and Shrikant Tiwari, “Effect of Face Tampering on Facial Recognition Technology”, IJMA, referred by Springer (AIRCC), ( <i>Communicated</i> )
8.9	<b>Aruni Singh</b> , Shrikant Tiwari and Sanjay Kr. Singh, “Face Tampering Detection from Single Image using Granular LBP”, IET-Biometrics, BMT-2012-0037, (Under Review)
8.10	Sanjay Kumar Singh, Shrikant Tiwari, A.Abdi & Aruni Singh, “Prediction if Pain Intensity using multimedia data”, Vol 67, Number 3, December 2016, ISSN 1380-17501, Multimedia Tools an Applications, Springer, DOI 10.1007/ 11042-017-4718-6 .
8.11	<b>International Conferences :</b>
8.12	Shrikant Tiwari, <b>Aruni Singh</b> and Sanjay Kumar Singh, “Can Ear and Soft-biometric Traits Assist in Recognition of Newborn?”, In Proceedings of <i>International Conference on Computer Science, Engineering and Applications</i> , DOI:10.1007/978-3-642-30157-5, ISBN: 978-3-642-30157-5, pp 179-192, (Springer Berlin Heidelberg) 2012.

8.13	Shrikant Tiwari, <b>Aruni Singh</b> and Sanjay Kumar Singh, “Can Face and Soft-biometric Traits Assist in Recognition of Newborn?”, In Proceedings of <i>IEEE, International Conference on Recent Advanced in Information Technology</i> , IEEE Catalog Number: CFP1234P-ART, ISBN: 978-1-4577-0694-3, pp. 74-79, March 2012.
8.14	Shrikant Tiwari, <b>Aruni Singh</b> and Sanjay Kumar Singh, “Newborn’s Ear Recognition: Can it be done?”, In Proceedings of <i>IEEE International Conference on Image Information Processing</i> , IEEE Catalog Number: CFP1169N-ART, ISBN: 978-1-61284-859-4, pp. 01-06, September, 2011.
8.15	Shrikant Tiwari, <b>Aruni Singh</b> and Sanjay Kumar Singh, ”Face Recognition of Newborn using Intelligent Technique” National Conference on <i>Artificial Intelligence and Agents: Theory and Applications (AIATA)</i> , I.I.T., B.H.U., December 9-11, 2011.
8.16	<b>Aruni Singh</b> , Shrikant Tiwari and Sanjay Kumar Singh, “Performance evaluation on dummy face images”, In Proceedings of <i>International Conference on Computer Science, Engineering and Applications</i> , DOI:10.1007/978-3-642-30157-5, ISBN:978-3-642-30157-5, pp. 211-222, (Springer Berlin Heidelberg) May 2012.
8.17	Prabujeet Kaur and <b>Aruni Singh</b> , “User Authentication in Social Networking Sites Using Face Recognition”, <i>IEEE International Conference PDGC 2012</i> : Record No. 30155, Paper ID 1569668985, ISBN: 978-1-4673-2J22-4, DOI: 10.1109/PDGC- 2012.6449920.
	<b>Aruni Singh</b> , Sanjay Kumar Singh and Shrikant Tiwari, “Fake Face Database and Preprocessing”, <i>CCSIT-2013</i> , ISBN 978-1-821987-00-7, DOI: 10.5121/csit.2013.3602, pp. 13-24, 2013.
8.18	<b>Book Chapter :</b> Shrikant Tiwari, <b>Aruni Singh</b> , Ravi Shankar Singh and Sanjay Kumar Singh, “Internet Security using Biometrics”, <i>Technologies and protocols for Future Internet Design: Reinventing in Web (IGI Global Publishing)</i> . Chapter 6. ISBN-10:1466602031, DOI: 10.4018/978-1-4666-0203-8.Ch 006.

## 9. Courses Attended :

Sr.N	Title of Course, Location	Duration
1	Accreditation of Technical Institutions, NITTTR Chandigarh	13.12.04-17.12.04
2	Innovation & Creativity Development, NITTTR Chandigarh	10.01.05-14.01.05
3	Mobile Computing, NITTTR Chandigarh	10.10.05-14.10.05
4	Machatronics & its Application, KNIT Sultanpur	13.11.05-14.11.05
5	Computer Networking, KNIT Sultanpur	18.11.05-19.11.05
6	Environmental Studies, KNIT Sultanpur	23.01.2006
7	Introduction to Graph & Geometric Algorithms, IT BHU Varanasi	27.01.10-29.01.10
8	Biosignal & Medical Image Processing, IIT Roorkee	21.06.10-25.06.10
9	Biometrics & its Application in Forensic Science, IIT Kanpur	13.01.11-15.01.11
10	Enterpreurship Development I , KNIT Sultanpur	16.12.13-27.12.13

11	Signal, Image, Speech, & Language Processing, BHU Varanasi	21.07.14-01.08.14
12	Entrepreneurship Development II , KNIT Sultanpur	16.02.15-28.02.15
13	Essentials of Teaching-Learning Process, KNIT Sultanpur	27.04.15-02.05.15
14	Advance Remote Sensing & GIS, KNIT Sultanpur	06.10.15-07.10.15
15	Embedded System Development, KNIT Sultanpur	02.11.15-06.11.15
16	Research Methodology Using Data Analytical Tools, KNIT Sultanpur	11.01.16-22.01.16
17	IBM Rational Software Architect, KNIT Sultanpur	03.02.16-06.02.16
18	Recent Advances in Numerical Optimization Techniques, KNIT Sultanpur	01.03.16-05.03.16
19	IBM Cognos BI, KNIT Sultanpur	09.03.16-12.03.16
20	Fuzzy Logic in Mathematical Problems, NITTTR Chandigarh	18.09.17-22.09.17
21	Intellectual Property Right & Entrepreneurship Development, KNIT Sultanpur	13.02.18-17.02.18
22	Outcome Based Accreditation for Undergraduate Engineering Programs, KNIT Sultanpur	19.03.18-20.03.18
23	Artificial Intelligence & ICT Academies, IIT Roorkee	17.12.18-21.12.18
24	Next Generation Wireless Networks, NITTTR Chandigarh	29.04.19-03.05.19
25	Cloud Age Technology, KNIT Sultanpur	20.11.19-21.11.19
26	Python Programming with Industry Perspective, Ministry of Electronics & Information Technology, Govt. of India	02.12.19-06.12.19

#### 10. Courses Organized :

Sr.No.	Title of Course, Location	Duration
1	<b>Computer Based Security: Issues &amp; Challenges</b> , KNIT Sultanpur	17.10.16-21.10.16
2	<b>Machine Learning &amp; Computer Vision</b> , MLCV-2018, KNIT Sultanpur	09.02.18-13.04.18
3	<b>International Conference</b> , ICACSE-2019, KNIT Sultanpur	08.02.19-09.02.19
4	<b>Cyber Crime &amp; Computer Security: Law Enforcement Perspective (CCCSLEP)</b> , KNIT Sultanpur	16.10.19-20.10.19

#### 11. Expert Lecture / Invited Talks:

Sr.N	Topic of Lecture, Location	Date
1	<b>Computer Programming Methodology</b> , Govt. ITI Sultanpur	07.06.2007
2	<b>Role of Science &amp; Technology in Child Development</b> , GS PG College, Sultanpur	25.02.2012 26.02.2012
3	<i>Full Course Expert Lecture - Digital Image Processing</i> , Rajarshi Rananjay Singh Institute of Management & Technology, Amethi (UP)	2013-14 Batch
4	<b>Biometric Recognition for Security Purpose</b> , KNIT Sultanpur	18.10.2016
5	<b>Effect of Face Tampering on Face Recognition Algorithms</b> , KNIT Sultanpur	19.10.2016
6	<b>Detection of Face Tampering from Face Image for security Purpose</b> , KNIT Sultanpur	20.10.2016
7	<b>Cyber Security</b> , Laureate Institute of Management & Information Technology, Tehsil Jwalamukhi, District Kangra, Himachal Pradesh	26.12.2018

8	<b>Foundation of Computer Security Level I, II, IV</b> KNIT Sultanpur	16.10.2019
9	<b>Statistical Analysis of Algorithms</b> , KNIT Sultanpur	17.10.2019
10	<b>Evaluation of Ethical Parameters (Probability Based)</b> , KNIT Sultanpur	20.10.2019
11	<b>Cyber Security &amp; Parameters</b> , COP TALK 2.0, UPP Amethi (UP)	10.02.2020 11.02.2020

## 12. Topics of Teaching & Research:

Digital Image Processing, Pattern Recognition, Cyber Security, Forensic Science, Biometrics Security, Image Tampering Detection, Video Tampering Detection, Behavioral Science analysis. Computer Architecture, Computer Graphics & Animation, Statistical analysis, Probability & Statistics



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