

**Praveen Kumar Chandaliya**  
**Ph.D, Postdoc**

## Curriculum Vitae

SVNIT, DoAI  
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### RESEARCH AREA

Biometrics, Face Recognition, Deep Learning, Computer Vision, Generative AI

### EDUCATION

- Postdoc **Norwegian University of Science and Technology, Norway**, (Feb 2023-Feb 2024).  
Research **European Commission funded project: iMARS: image Manipulation Attack Resolving Solutions**  
Associate **Supervisor:** Prof. Kiran Raja, Prof. Raghavendra Ramachandra and Prof. Christoph Bush
- Ph.D **Malaviya National Institute of Technology Jaipur, Computer Science & Engg**, (2017-2022).  
CGPA: 8.33  
**Thesis:** Child Face aging and rejuvenation with Generative Adversarial Networks  
**Supervisor:** Dr. Neeta Nain
- M.Tech **Malaviya National Institute of Technology, Jaipur, Computer Science & Engg**, (2011-2014).  
CGPA: 6.95  
**Thesis:** Image processing for the Quality Assessment of food grains using Parallel Programming  
**Supervisor:** Dr. Neeta Nain
- B.Tech **Institute of Technology & Management Bhilwara, Computer Engineering**, (2003-2007).  
Affiliated to University of Rajasthan, Jaipur  
Percentage: 71.42%

### VISITING SCHOLAR- (PRIP Lab, Michigan State University)

- Sep. 2019– **Michigan State University, Michigan, USA.**  
Nov 2019 Designation:- Research Scholar  
**Adviser:** Distinguish Prof. Anil Kumar Jain  
**Project:** Child face aging and cross-age face recognition

### EXPERIENCE- (ACADEMICS - 8.6 YEARS, RESEARCH - 6.4 YEARS)

- Feb 2023– **Norwegian University of Science and Technology, Norway.**  
Feb 2024 Designation:- Postdoc Research Associate
- Aug 2022– **The LNM Institute of Information Technology, Jaipur.**  
Jan 2023 Designation:- Assistant Professor
- Jan 2020– **Malaviya National Institute of Technology, Jaipur.**  
Aug 2022 Designation:- Senior Research Fellow, Ministry of Electronics and Information Technology, Govt of India
- Jan 2011– **Poornima Institute of Engineering and Technology, Jaipur.**  
Jan 2017 Designation:- Assistant Professor.  
Subject Taught:- C++, J2EE, Web Technology, Cloud Computing
- Nov 2008– **Suresh Gyan Vihar University, Jaipur.**  
Jan 2011 Designation:- Lecturer  
Subject Taught:- C, OOP's, JAVA, PPL, DBMS.

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## PROJECTS WORKED ON

Title: **iMARS: image Manipulation Attack Resolving Solutions, European Union, NTNU, Norway**

Description: iMARS is a research project funded by the European Commission, started in September 2020 for 48 months. The use of counterfeit travel documents at borders is a reality, which entails the risk of not identifying known criminals, including terrorists, or previously unknown subjects, such as victims of human trafficking.

Contribution WP5.2: Assessment of human expert capabilities to detect manipulations.

to iMARS WP11.1: Assessment and improvement of ISO/IEC 29794-5 face image quality.

deliverables: WP5.3: Presentation attack detection mechanism for face capture.

Title: **Child Face age progression and regression to trace missing children, MeitY, Govt India**

Description: This project is based upon work supported by the Ministry of Electronics and Information Technology (MeitY), Government of India, under Grant No. 4 (13)/2019-ITEA. We present a new large-scale **Longitudinal Indian Child (ICD)** benchmark dataset to facilitate face age progression and regression (FAPR) and cross-age face recognition (CAFR). We proposed generative adversarial network based frameworks such as SAMSP and ChildGAN make a significant contribution to society by reuniting missing children with their loved ones.

Tools: Python, Pytorch, Tensorflow

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## PUBLICATIONS

### Journal Papers

- 2023 **Praveen Kumar Chandaliya**, Neeta Nain, "AW-GAN: Face Aging and Rejuvenation using Attention with Wavelet GAN", Journal of Neural Computing and Applications Springer, ISSN. 1433-3058, vol. 34, 2023, pp. 1-14, (IF=5.16).
- 2022 **Praveen Kumar Chandaliya**, Neeta Nain, "ChildGAN: Face Aging and Rejuvenation to Find Missing Children", Journal of Pattern Recognition Elsevier, vol.129, ISSN. 0031-3203, 2022, pp. 108761, doi: <https://doi.org/10.1016/j.patcog.2022.108761> (IF=8.51).
- 2022 **Praveen Kumar Chandaliya**, Neeta Nain, "PlasticGAN: Holistic Generative Adversarial Network on Face Plastic and Aesthetic Surgery", Journal of Multimedia tools and Applications Springer, ISSN: 1573-7721, vol. 81(9), 2022, pp. 1-22, doi: <https://doi.org/10.1007/s11042-022-12865-5> (IF=2.76).

### International Conference

- 2023 **Praveen Kumar Chandaliya**, Kiran Raja, Raghavendra Ramachandra, Christoph Busch "Unified Face Image Quality Score based on ISO/IEC Quality Components", IEEE BIOSIG, Darmstadt, Germany, 2023, pp. 1-6.
- 2023 **Praveen Kumar Chandaliya**, Kiran Raja, Snehal Rajendra, Neeta Nain, Raghavendra Ramachandra, Christoph Busch "MuSTAT: Face Ageing using Multi-Scale Target Age Style Transfer", IAPR CVIP, Jammu, India, 2023, pp. 1-12. **(Best paper award)**
- 2022 **Praveen Kumar Chandaliya**, Zahid Akhtar, Neeta Nain, "Longitudinal Analysis of Mask and No-Mask on Child Face Recognition", ACM ICVGIP 2022, IIT Gandhinagar, India.
- 2021 **Praveen Kumar Chandaliya**, Neeta Nain, "Child Face Age Progression and Regression using Self-Attention Multi-Scale Patch GAN", IEEE IJCB/CVF, Shenzhen, China, 2021, pp. 1-8.
- 2020 **Praveen Kumar Chandaliya**, Aditya Sinha, Neeta Nain, "ChildFace: Gender Aware Child Face Aging", IEEE BIOSIG, Darmstadt, Germany, 2020, pp. 1-5.
- 2019 **Praveen Kumar Chandaliya**, Neeta Nain, "Conditional Perceptual Adversarial Variational Autoencoder for Age Progression and Regression on Children Face", IEEE ICB, Crete, Greece, 2019, pp 1-8.

- 2019 **Praveen Kumar Chandaliya**, Vardhman Kumar, Mayank Harjani, Neeta Nain, "SCDAE: Ethnicity and Gender Alteration on CLF and UTKFace Dataset", In Proceedings of International Conference on Computer Vision and Image Processing, Springer, Singapore, 2019, pp-294-306.
- 2018 **Praveen Kumar Chandaliya**, Preyas Garg, Neeta Nain, "Retrieval of Facial Images Re-Rendered with Natural Aging Effect using Child Facial Image and Age", SITIS, Spain, Nov 26-29, 2018, pp. 457-463.

## TECHNICAL SKILLS

Programming Python, J2SE, J2EE, C/C++  
 Framework Pytorch, Tensorflow, Keras, Hibernate, Struts2.0  
 DL Generative Adversarial Network, Diffision Models, Transfomers, CNN, RNN, LSTM  
 Dev. Tools Anaconda, Git, Eclipse, Net-Beans, L<sup>A</sup>T<sub>E</sub>X

## CERTIFICATION

- 2008 Sun Certified Java Programmer (SCJP) with 83%  
 2009 Sun Certified Web Component Developer (SCWCD) with 94%

## WORKSHOPS/ TRAINING

- 2023 **Workshop on Face Image Quality, 7-9 Nov 2023.**  
 Towards a Unified Quality Score Based on Aggregated Quality Components, NTNU, Norway
- 2022 **SERB sponsored Karyashala (High-end Workshop), 12-18 Dec 2022.**  
 Open Source Scientific Document Preparatory Tools, IIIT Kota, Jaipur
- 2021 **Selected for Doctoral Consortium, 15-18 Dec 2021.**  
 International Conference on Automatic Face and Gesture Recognition, Jodhpur, India.
- 2020 **Poster Presentation.**  
 International Summer School for Advanced Studies on "Biometrics Forensics and Identity Science for Human-Centered Applications", Alghero, Italy.
- 2017 **Workshop on Deep Learning and Machine Learning, 16 – 20 Dec 2017.**  
 Bennett University Noida, India
- 2017 **Medical Imaging Techniques, Post Processing and Clinical Applications, 14 – 16 April.**  
 IIT Delhi
- 2017 **Short Term Training Program on Medical Signal and Image Processing-II., 22-27 May 2017 NIT Raipur.**
- 2017 **Biometrics and Privacy Protection Workshop at MNIT, Jaipur, (Duration: 5 Days).**  
 Workshop at MNIT, Jaipur
- 2016 **Hand's on Hadoop in Association with EMC2, (Duration: 5 Days).**  
 Workshop at Manipal University , Jaipur
- 2015 **Mission10X Faculty Training program, (Duration: 1 Week).**  
 Faculty Development programme by Wipro Technology
- 2014 **Hand's on Web Application Development Using Spring Framework, (Duration: 5 Day).**  
 Faculty Development programme by Infosys, Chandigarh at SKIT, Jaipur

## Google Scholar

<https://doi.org/10.1016/j.patcog.2022.108761>