Srishti Gautam Female, 28

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Research/Work Experience

- PhD Candidate at **UiT Tromsø.**, Norway — Mar 2020 –
  (Machine Learning Group, Visual Intelligence Center)
- Research Engineer at **Arkray Healthcare Pvt. Ltd.**, Pune — Jun 2018 – Dec 2019
  (Artificial Intelligence in medical images)
- Research Engineer at **ChironX.ai**, Gurgaon — Dec 2017 – Jun 2018
  (Image analysis for automated diagnosis of diabetic retinopathy)
- MS Research Scholar/Project Associate at **IIT Mandi** — Aug 2015 – Nov 2017
  *in collaboration with **Aindra Systems Pvt. Ltd**, Bangalore*
  (Image analysis for automated cervical cancer screening)
- Software Development Engineer at **Aspiring Minds Assessment Pvt Ltd.**, Gurgaon — Aug 2014 – Jul 2015

Education

2020 – 2024	**Doctor of Philosophy (IFT - Machine Learning)** *UiT Tromsø, Norway*
2015 – 2017	**MS By Research(Computer Science)** *IIT Mandi, India*
2010-2014	**B. Tech(CSE)** First Class Honours, *Kurukshetra University, India*
2010	**CBSE (class XII)** *Hindu Vidya Peeth School, Sonipat, India*
2008	**CBSE (class X)** *Hindu Vidya Peeth School, Sonipat, India*

Technical Experience

ML Libraries:	**Pytorch, Tensorflow, Keras**, OpenCV.
Languages:	C, C++, **Python**, Java, SQL, PHP.
Tools:	**MATLAB** R2020a, LaTeX.

Academic Achievements

- GATE 2015 qualified with an All India Rank of 612.
- Member of Computer Society of India. (2013)

Presentations

Posters

- Poster presentation at COMPAY, MICCAI 2019.
- Poster presentation at WICV, CVPR 2017.
- **Best Poster Award** at IIT Kharagpur,
  Machine Vision and Learning Spring School 2016.

Extra–Curricular experience

- Organizing committee member for NLDL, 2022.
- Volunteer at NCVPRIPG 2017 at IIT Mandi.
- Organizer of WMLMIA 2017 at IIT Mandi.
- Member of Career & Placement cell, IIT Mandi (2016).
- Organizer of Music department in Annual Fest (2014).
- Organizer of Technical Fest of CSE department (2014).
- Part of Hiking and Trekking club at IIT Mandi (2017).
- Co-anchor during college fest (2011).
- Several prizes in district level singing, painting, debates & declamation competitions.
- Other interests include reading & painting.

Publications

Patents

1. Method and System for Image Enhancement of Microscopic Images, JP2019-30720.
2. A method for medical screening and a system therefor, WO 2016/189469.

Journal

1. (Submitted) S. Gautam, S. Hansen, M. Kampffmeyer, MMC. Vidovic, R. Jenssen. "This looks more like that: Enhancing Self-Explaining Models by Prototypical Relevance Propagation", IEEE Transactions on Neural Networks and Learning Systems, 2021.
2. (Submitted) S. Hansen, S. Gautam, R. Jenssen, M. Kampffmeyer. "Anomaly Detection-Inspired Few-Shot Medical Image Segmentation Through Self-Supervision With Supervoxels", Medical Image Analysis, 2021.

Conference

1. S. Gautam, D. Pradhan, P. Chhipa, S. Nakajima. "Size-Invariant Learning of GAN for Super Resolution in Low Quality Medical Images." MICCAIW COMPAY 2019.
2. N. Jith, K. Harinarayanan, S. Gautam, A. Bhavsar, A. Sao. "DeepCerv: Deep neural network for segmentation free robust cervical cell classification." MICCAI, COMPAY Work- shop, (MICCAIW 2018).
3. S. Gautam, A. Bhavsar, A.K. Sao. "CNN based segmentation of nuclei in PAP-smear images with selective pre-processing." SPIE Medical Imaging 2018.
4. S. Gautam, K. Gupta, A. Bhavsar, A.K. Sao. "Unsupervised segmentation of cervical cell nuclei via adaptive clustering." Medical Image Understanding and Analysis (MIUA 2017).

arXiv

1. S. Gautam, K.K. Harinarayan, N. Jith, A.K. Sao, A. Bhavsar, A. Natarajan. "Considerations for a PAP smear image analysis system with CNN features". arXiv:1806.09025 [cs.CV], 2018.