Srishti Gautam Female, 29

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Research/Work Experience

Mar 2020 –

- PhD Candidate at **UiT The Arctic University of Norway**, Norway
  (Machine Learning Group, Visual Intelligence Center)

Jun 2018 – Dec 2019

- Research Engineer at **Arkray Healthcare Pvt. Ltd.**, Pune
  (Artificial Intelligence in medical images)

Dec 2017 – Jun 2018

- Research Engineer at **ChironX.ai**, Gurgaon
  (Image analysis for automated diagnosis of diabetic retinopathy)

Aug 2015 – Nov 2017

- MS Research Scholar/Project Associate at **IIT Mandi**
  *in collaboration with **Aindra Systems Pvt. Ltd**, Bangalore*
  (Image analysis for automated cervical cancer screening)

Aug 2014 – Jul 2015

- Software Development Engineer at **Aspiring Minds Assessment Pvt Ltd.**, Gurgaon

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.

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).
- Several prizes in district level singing, painting, debates & declamation competitions.
- Other interests include reading & painting.

Presentations

Oral

- Oral presentation at NOBIM, 2021, Oslo, Norway
- Oral presentation at Visual Intelligence days, 2021, Oslo, Norway.

Posters

- Poster presentation at ISBI, 2022, Kolkata, India
- Poster presentation at COMPAY, MICCAI 2019, Shenzhen, China.
- Poster presentation at WICV, CVPR 2017, Hawaii, USA.
- Best Poster Award at IIT Kharagpur, Machine Vision and Learning Spring School 2016, West Bengal, India.

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, MMC. Vidovic, S. Hansen, R Jenssen, M. Kampffmeyer, "This looks more like that: Enhancing Self-Explaining Models by Prototypical Relevance Propagation", 2021.
2. 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, MMC. Vidovic, S. Hansen, R Jenssen, M. Kampffmeyer, "Demonstrating The Risk of Imbalanced Datasets in Chest X-ray Image-based Diagnostics by Prototypical Relevance Propagation." ISBI 2022.
2. S. Gautam, D. Pradhan, P. Chhipa, S. Nakajima, "Size-Invariant Learning of GAN for Super Resolution in Low Quality Medical Images." MICCAIW COMPAY 2019.
3. N. Jith, K. Harinarayanan, S. Gautam, A. Bhavsar, A. Sao, "DeepCerv: Deep neural network for segmentation free robust cervical cell classification." MICCAI, COMPAY Workshop, (MICCAIW 2018).
   ... and more.

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.