

# Srishti Gautam

Female, 28



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## Research/Work Experience

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

## Education

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

## Technical Experience

ML Libraries: **Pytorch, Keras**, OpenCV, scikit-learn.  
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

- 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 & traveling.

## 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.

### Conference publications

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.

### Extended Abstracts

1. S. Gautam, A. Bhavsar, A.K. Sao. "CNN based segmentation of nuclei in PAP-smear images with selective pre-processing." WICV workshop, (CVPRW 2017).
2. S. Gautam, K. Gupta, A. Bhavsar, A.K. Sao. "Unsupervised segmentation of cervical cell nuclei via adaptive clustering." WICV workshop, (CVPRW 2017).
3. K. Gupta, S. Gautam, A. Sao, A. Bhavsar. "Nucleus-based cervical cell classification in PAP-smear images using decision-tree based approach." WICV workshop, (CVPRW 2016).