

Srishti Gautam

Female, 26

RESEARCH/WORK EXPERIENCE

JUN 2018 – PRESENT

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

DEC 2017 – JUNE 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 – JULY 2015

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

PUBLICATIONS

Patents

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

Journal publications

- (In Progress)** 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.

Conference publications

- (Submitted)** S. Gautam, D. Pradhan, P. Chhipa, S. Nakajima. "Size-Invariant Learning of GAN for Super Resolution in Low Quality Medical Images." MICCAI 2019.
- 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).
- S. Gautam, A. Bhavsar, A.K. Sao. "CNN based segmentation of nuclei in PAP-smear images with selective pre-processing." SPIE Medical Imaging 2018.
- 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).

Extended Abstracts

- S. Gautam, A. Bhavsar, A.K. Sao. "CNN based segmentation of nuclei in PAP-smear images with selective pre-processing." WICV workshop, (CVPRW 2017).
- S. Gautam, K. Gupta, A. Bhavsar, A.K. Sao. "Unsupervised segmentation of cervical cell nuclei via adaptive clustering." WICV workshop, (CVPRW 2017).
- 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).



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EDUCATION

- 2015 – 2017 **MS By Research(Computer Science)**
IIT Mandi
- 2010-2014 **B. Tech(CSE)**
First Class Honours, Kurukshetra University
- 2010 **CBSE (class XII)**
Hindu Vidya Peeth School, Sonipat
- 2008 **CBSE (class X)**
Hindu Vidya Peeth School, Sonipat

TECHNICAL EXPERIENCE

- ML Libraries: **Keras, OpenCV**, scikit-learn.
- Languages: C, C++, **Python**, Java, SQL, PHP.
- Tools: **MATLAB R2014/15/16**, Latex.

ACADEMIC ACHIEVEMENTS

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

INTERNATIONAL TRAVEL

- Business visit to ARKRAY Inc. Lab, Kyoto, Japan. (Feb 2019 - Mar 2019)
- Travel grant from WICV to attend **CVPR, 2017** in Honolulu, Hawaii.

PRESENTATIONS

Posters

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

POSITIONS OF RESPONSIBILITY

- 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).
- Organizer of "Blood Donation Mela" in college (2012).

EXTRA-CURRICULAR EXPERIENCE

- 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.