

# VANDIT GAJJAR

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## EDUCATION

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**School of Computer Science, The University of Adelaide**

Adelaide, AUS

*Master of Computing and Innovation*

July 2019 - Present

**GPA: 5.75 / 7.00**

**L. D. College of Engineering (LDCE)**

Ahmedabad, IN

*Bachelor of Engineering in Electronics and Communication*

June 2014 - June 2018

**GPA: 8.22 / 10.00**

## RESEARCH INTERESTS

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Deep Learning, Computer Vision

## PUBLICATIONS

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**SAF- BAGE: Salient Approach for Facial Soft-Biometric Classification - Age, Gender, and Facial Expression**

*IEEE Winter Conference on Applications of Computer Vision (WACV) 2019 (Oral)*

A. Gurnani, K. Shah, V. Gajjar, V. Mavani, Y. Khandhediya

**Person Retrieval in Surveillance Video using Height, Color and Gender**

*IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS) 2018 (Oral)*

H. Galiyawal, K. Shah, V. Gajjar, M. Raval

**ViS-Hud: Using Visual Saliency to Improve Human Detection with Convolutional Neural Networks**

*IEEE Computer Vision and Pattern Recognition Workshops (CVPRw) 2018*

V. Gajjar, Y. Khandhediya, A. Gurnani, V. Mavani, M. Raval

**Human Detection and Tracking for Video Surveillance: A Cognitive Science Approach**

*IEEE International Conference on Computer Vision Workshops (ICCVw) 2017*

V. Gajjar, A. Gurnani, Y. Khandhediya

**Hand Gesture Real Time Paint Tool-Box**

*IEEE International Conference on Power, Control, Signal and Instrumentation Engineering 2017*

V. Gajjar, V. Mavani, A. Gurnani

**Human Detection for Night Surveillance using Adaptive Background Subtracted Image**

*National Conference on Advances in Computer Science Engineering and Technology 2017*

Y. Khandhediya, K. Sav, V. Gajjar

## AWARDS AND ACHIEVEMENTS

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- The 2019 University of Adelaide Global Citizens Scholarship for postgraduate studies to demonstrate an understanding of, and commitment to, global citizenship.
- Outstanding Teaching Assistant Award - Ahmedabad University for Advanced Statistics, Computer Vision and Machine Learning courses.
- 3rd place in Semantic Person Retrieval in Surveillance using Soft Biometrics in Conjunction with IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS), 2018.
- Design and Technology Manager Award for excellent managerial performance for GTU Central Techfest 2017.
- Protsahan Puraskar Scholarship for undergraduate studies.

## WORK EXPERIENCE

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- School of Engineering and Applied Science, Ahmedabad University** Ahmedabad, IN  
*Research Assistant* July 2018 - December 2018  
Deep Learning for Person Retrieval in Surveillance Video using Semantic Description. Published at IEEE AVSS 2018. (Project funding agencies: Board of Research in Nuclear Science (BRNS), Bhabha Atomic Research Centre (BARC), Department of Atomic Energy, Government of India).
- Meditab Software Inc.** Ahmedabad, IN  
*Software Development Engineer Intern (Artificial Intelligence)* March 2018 - June 2018  
Designed a computer vision based system for Medical Pill Detection and Segmentation.
- School of Engineering and Applied Science, Ahmedabad University** Ahmedabad, IN  
*Visiting Student* September 2017 - June 2018  
Conducted research experiments on Description based Person Identification in Unconstrained Surveillance Video. Published at IEEE/CVF CVPRw 2018.

## TEACHING

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- MAT502: Advanced Statistics** Ahmedabad University  
*Teaching Assistant* Winter 2019  
Conducted weekly office hours to help students with concepts.
- CSC105: Introduction to Computation and Programming Lab** Ahmedabad University  
*Teaching Assistant* Winter 2019  
Responsibilities included teaching discussion session 1 hour/week, teaching a lab session 3 hours/week, and grading exams.
- CSC523: Machine Learning** Ahmedabad University  
*Teaching Assistant* Winter 2019  
Assisted in creating theory and coding assignments. Conducted weekly office hours to help students with homework and concepts.
- MAT202: Probability and Random Processes** Ahmedabad University  
*Teaching Assistant* Winter 2019  
Conducted weekly office hours involving blackboard teaching and tutorial sessions.
- CSP 502: Computer Vision** Ahmedabad University  
*Teaching Assistant* Fall 2018  
Conducted weekly office hours to help students with homework and concepts.
- CSP 200: Signals and Systems** Ahmedabad University  
*Teaching Assistant* Fall 2018  
Responsibilities included creating assignments, teaching discussion session 1 hour/week, teaching a tutorial session 4 hours/week, and grading assignments.
- CSC 331: Computer Networks Lab** Ahmedabad University  
*Teaching Assistant* Fall 2018  
Responsibilities included teaching a lab session 2 hours/week, and grading assignments. Conducted weekly office hours to help students with assignments.

## SKILLS

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- **Languages:** Python, C++, Java
- **Frameworks:** TensorFlow, PyTorch, NumPy, Pandas, Scikit-Learn, Open CV
- **Version Control:** Git, SVN
- **Web Development:** HTML, CSS
- **Platforms:** Windows, Linux, MacOSx

## RELEVANT COURSES

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### Graduate Coursework

• Algorithms and Data Structure Analysis • Artificial Intelligence • Computer Vision • Computer Networks and Applications • Foundations of Computer Science

### Selected Undergraduate Coursework

• Computer Programming and Utilization • Microprocessor Interfacing • Micro-controller Interfacing • Advanced Microprocessors • VLSI • Digital Signal Processing • Fundamentals of Image Processing

## PROFESSIONAL ACTIVITIES

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### Reviewing

IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	2020
European Conference on Computer Vision (ECCV)	2020
IEEE International Conference on Computer Vision (ICCV)	2019
AAAI Conference on Artificial Intelligence (AAAI)	2020
International Conference on Machine Learning (ICML)	2020
IEEE Winter Conference on Applications of Computer Vision (WACV)	2020, 2021
Asian Conference on Computer Vision (ACCV)	2020

## INVITED TALKS

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- SAF- BAGE: Salient Approach for Facial Soft-Biometric Classification - Age, Gender, and Facial Expression, at Workshop on Demographic Variations in Performance of Biometric Algorithms in conjunction with IEEE WACV 2019
- Workshop on Machine Learning using Python in Tensorflow, at Ingenium, Ahmedabad University 2019

## MEDIA COVERAGE

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New Scientist, Digital Trends, The Next Web, Tech The Lead, IMPORT AI by Jack Clark, Business Recorder, RT

Last updated: June 27, 2020