

# 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
- **AWS Certification:** Certified Cloud Practitioner

## RELEVANT COURSES

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### Graduate Coursework

• Algorithms and Data Structure Analysis • Artificial Intelligence • Computer Systems • Computer Vision • Computer Networks and Applications • Foundations of Computer Science • Introduction to Statistical Machine Learning • Operating Systems • Software Engineering and Project

### Selected Undergraduate Coursework

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

## COMPETITIONS

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### Google Kick Start

Round D 2020

## PROFESSIONAL ACTIVITIES

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### Reviewing

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

### Volunteering

International Conference on Machine Learning (ICML) 2020  
International Conference on Learning Representations (ICLR) 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: August 5, 2020