

VANDIT GAJJAR

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EDUCATION

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

Deep Learning, Computer Vision, Software Development

WORK EXPERIENCE

AI Australia

Sydney, NSW

Data Analyst Intern

September 2020 - Present

Working with the AI Consulting team on Computer Vision and Deep Learning projects - Aerial Dense Object Detection where the goal is to detect several objects from high-resolution satellite images and BBI AI in which the goal is to develop an application for predicting height and waist from input image data.

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. Created a dataset of more than 8000 images consisting different Medical Pill categories, annotated manually, and fine-tuned Mask R-CNN for accurate results.

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.

AWARDS AND ACHIEVEMENTS

- 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.

SKILLS

- **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, Certified Developer Associate
- **Soft:** Conflict Management, Effective Communication, Logical and Critical Thinking, Team Planning

RELEVANT COURSES

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

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

COMPETITIONS

Google Kick Start

Round D

2020

PUBLICATIONS

Rethinking Person Retrieval in Video Surveillance using Semantic Attributes

In Submission IEEE Winter Conference on Applications of Computer Vision (WACV) 2021

P. Shah, V. Gajjar

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

TEACHING

MAT502: Advanced Statistics

Teaching Assistant

Conducted weekly office hours to help students with concepts.

Ahmedabad University

Winter 2019

CSC105: Introduction to Computation and Programming Lab

Teaching Assistant

Responsibilities included teaching discussion session 1 hour/week, teaching a lab session 3 hours/week, and grading exams.

Ahmedabad University

Winter 2019

CSC523: Machine Learning

Teaching Assistant

Assisted in creating theory and coding assignments. Conducted weekly office hours to help students with homework and concepts.

Ahmedabad University

Winter 2019

CSP 502: Computer Vision

Teaching Assistant

Conducted weekly office hours to help students with homework and concepts.

Ahmedabad University

Fall 2018

CSP 200: Signals and Systems

Teaching Assistant

Responsibilities included creating assignments, teaching discussion session 1 hour/week, teaching a tutorial session 4 hours/week, and grading assignments.

Ahmedabad University

Fall 2018

CSC 331: Computer Networks Lab

Teaching Assistant

Responsibilities included teaching a lab session 2 hours/week, and grading assignments. Conducted weekly office hours to help students with assignments.

Ahmedabad University

Fall 2018

PROFESSIONAL ACTIVITIES

Reviewing

International Conference on Learning Representations (ICLR) 2021

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2020, 2021

European Conference on Computer Vision (ECCV) 2020

IEEE/CVF International Conference on Computer Vision (ICCV) 2019

AAAI Conference on Artificial Intelligence (AAAI) 2020, 2021

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

South Australian State Emergency Service (SA SES) 2020

Professional Membership

Australian Computer Society (ACS) 2020

Computer Vision Foundation (CVF) 2017

INVITED TALKS

- 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

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

Last updated: October 13, 2020