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: 6.00 / 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

Computer Vision, Deep Learning, Software Development

WORK EXPERIENCE

The University of Adelaide — Adelaide, SA
Course Ambassador — March 2020 - Present
Working with the Learning and Innovation Center on helping the professors for concern regarding remote learning activities, provide insightful engagement matrices for the courses from the raw data, and use visualization techniques for effective modeling.

AI Australia — Sydney, NSW
Data Analyst Intern — September 2020 - December 2020
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.

AWARDS AND ACHIEVEMENTS

- Outstanding Reviewer: Asian Conference on Computer Vision (ACCV) - 2020

- 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.

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

PeR-ViS: Person Retrieval in Video Surveillance using Semantic Description
IEEE/CVF Winter Conference on Applications of Computer Vision Workshops (WACVw) 2021 (**Oral**)
P. Shah, A. Garg, ***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 Workshops (AVSSw) 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
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.

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.

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, 2021
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)	2020, 2021
Asian Conference on Computer Vision (ACCV)	2020

Volunteering

Neural Information Processing Systems (NeurIPS)	2020
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

<div align="center">Last updated: December 12, 2020</div>