

YASH KOTADIA

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EDUCATION

Exp 2021	Master of Science in Computer Science Ira A. Fulton School of Engineering, Arizona State University [GPA 3.78/4]	Tempe, Arizona
2019	Bachelor of Engineering in Computer Engineering Dwarkadas J. Sanghvi College of Engineering [GPA: 9.11/10]	Mumbai, India

EXPERIENCE

Aug '19 – Jan '20	Research Volunteer, Active Perception Group - ASU <ul style="list-style-type: none">Migrating methods of visual navigation in indoor scenarios from simulated to real-world datasets.Preprocessed data and trained a model to generate local top-down semantic map from FPV images.	Tempe, Arizona
Dec '18 - Feb '19	Summer Research Scholar, University of Auckland <ul style="list-style-type: none">Explored the efficacy of Photo Response Non-Uniformity and deep learning for the identification of deepfake videos. [Link]	Auckland, New Zealand
Aug '18 - Oct '18	Research Intern, Indian Institute of Technology Bombay <ul style="list-style-type: none">Development of AI solutions for Traffic Violation Detection in the Indian setting.Built a Tkinter based GUI tool for annotating videos and deployed a system for annotating 5 million video frames. Integrated object detection outputs and tracking for reducing annotation efforts.Analyzed attention and saliency maps for improving tensorflow model trained to read license-plates.Developed a real-time model to detect the presence of a vehicle in an image.	Mumbai, India

PROJECTS

Feb '20	Raspberry Pi Surveillance System with Cloud based Object Detection <ul style="list-style-type: none">Devised a surveillance system that performs near real-time object detection using AWS EC2.Implemented edge computing and auto-scaling to minimize usage of cloud resources. [Link]	AWS, Python
Jul '18-May 19'	3D Reconstruction of Room Layout using 2D Images <ul style="list-style-type: none">Developed a deep learning model that can produce the 3D layout of a room given its RGB images. The primary goal is to generate entire 3D layout from a single panoramic image of the room.CVPR Workshop 3D Scene Generation Publication. [Paper]	Python, PyTorch, OpenCV
Feb-Apr '18	Extract Semantic Information from Location Data <ul style="list-style-type: none">Developed a generalizable model to mine user's spatio-temporal data available on Google Takeout.Extracted semantic information such as the time spent by a user at a place and the type of place, for behavior analysis.	Python, gmpplot, Pandas
Feb 2018	OneWorld: A Roof for Every Refugee <ul style="list-style-type: none">Developed an end to end online platform for assisting organizations in helping out Refugees. [Link]	Django, JavaScript, SQLite
Oct 2017	FlapPy Bird Reinforcement Learning Bot <ul style="list-style-type: none">Developed a reinforcement learning bot to beat the game Flappy Bird using Q-Learning.The bot surpasses humans with scores over 5,00,000 after 33,000 training episodes. [Link]	Python, PyGame, Tkinter
Dec 2016	Game Development <ul style="list-style-type: none">Worked on developing the games Yahtzee, Brickbreaker and Hangman solely using the Java ACM Library. [Link]	Java

SKILLS & COURSES

Languages: Python, C++, C, Java, Shell, MATLAB **Web Technologies:** HTML5, CSS, JavaScript, SQL, Django, AWS
Courses: Cloud Computing, Statistical Machine Learning, Data Mining, Data Structures & Algorithms, Software Engineering, Artificial Intelligence, Operating Systems, Theoretical Computer Science, Database Management Systems

ACHIEVEMENTS

- Awarded Summer Research Scholarship of NZ\$6000 for pursuing research at University of Auckland.
- Selected for and attended summer school on Machine Learning/ Computer Vision at International Institute of Information Technology - Hyderabad (IIIT-H), August 2018.
- Finalist at the NSE Machine Learning Hackathon 2018, a national level hackathon.
- 2nd Runner Up at 'CSI: Codeshastra 4.0' 2018, an inter-college hackathon.
- Finalist at the DAIICT: Hack Infinity 2017, a national level hackathon.