VIGHNESH BIRODKAR

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EDUCATION

MS in Computer Science – GPA: 3.93/4 New York University - Courant Institute, New York, USA	2015 - 2017
B.Tech Computer Science & Engineering – GPA: 8.05/10 National Institute of Technology. Goa. India	2010 - 2014

PUBLICATIONS

•	• Proper Reuse of Image Classification Features Improves Object Detection	CVPR 2022
	Cristina Vasconcelos, Vighnesh Birodkar, Vincent Dumoulin	
•	• The surprising impact of mask-head architecture on novel class segmentation	CVPR 2021
	Vighnesh Birodkar, Zhichao Lu, Siyang Li, Vivek Rathod, Jonathan Huang	
•	• The iWildCam 2021 Competition Dataset	ICCV~2021
	Sara Beery, Arushi Agarwal, Elijah Cole, Vighnesh Birodkar	

- Semantic Redundancies in Image-Classification Datasets: The 10% You Don't Need arXiv 2019 Vighnesh Birodkar, Hossein Mobahi, Samy Bengio
- Unsupervised Learning of Disentangled Representations from Video

 NeurIPS 2017

 Emily Denton, Vighnesh Birodkar
- A convolutional approach to reflection symmetry Pattern Recognition Letters 2017 Marcelo Cicconet, Vighnesh Birodkar, Mads Lund, Michael Werman, Davi Geiger

WORK EXPERIENCE

Research Engineer (previously AI Resident), Google

June 2018 - Current

- Published state-of-the-art models for the partially supervised instance segmentation task.
- Wrote and maintained object detection models for the open source TF Object Detection API.
- Developed internal models for Books, Nest, CrowdSource and Maps.

Research Scientist, FeatureX, Inc.

June 2017- June 2018

- Implemented deep-learning algorithms for pan-sharpening, object detection and image alignment in satellite images.
- Assisted with the development the company's SaaS platform for satellite image analysis.

Research Assistant, Prof. Davi Geiger

September 2016 - December 2016

- Action recognition in videos using Deep Neural Networks.
- Study the effects of imposing linear constraints on latent vectors through time.

Junior Data Scientist, NYU Centre for Data Science

September 2015 - May 2016

- Implemented machine learning algorithms for scikit-learn.
- Created the project template for scikit-learn-contrib.

Software Development Engineer, Samsung Research India

June 2014 - June 2015

- Embedded application development in Printers Division.
- Revamped the Firmware Update process.