

Russel Shawn Dsouza

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Education	National Institute of Technology Karnataka, India <i>B.Tech in Electronics and Communications Engineering</i>	2017-2021
	Little Rock Indian School, Karnataka, India <i>K-12</i>	2004-2017
Projects	Computational Histopathology Built a supervised learning based model in PyTorch to perform the segmentation of nuclei in H&E stained histopathology images of kidney tissues.	
	Detecting Ponzi schemes in Ethereum smart-contracts Used a semi-supervised learning based model built using PyTorch and torchtext on raw bytecode of Ethereum smart contracts mined using Google BigQuery.	
	Detecting the truth level of articles Classified news articles into true, mostly true, half true, barely true, false and pants-fire with a supervised learning based classifier built using PyTorch and torchtext.	
	Real-time face detection and recognition Implemented real-time face detection and recognition using OpenCV, scikit-learn and dlib on a Raspberry Pi.	
Technical Skills	Languages: Python, MATLAB, C, Verilog, JavaScript Frameworks/Libraries: PyTorch, scikit-learn, scikit-image, OpenCV, pandas Web/App development: Django, React, JavaScript Miscellaneous: git, Linux, Google BigQuery, Xilinx Vivado, L ^A T _E X	
Experience	Research Assistant under Dr. Shyam Lal, NITK Working on the design and development of an automated colon cancer detection system from H&E stained histopathology images.	Nov 2019 - Present Karnataka, India
	Research Intern under Dr. Shyam Lal, NITK Worked on the segmentation of H&E stained histopathology images of kidney tissues to detect kidney cancer. Studied fundamentals of image processing, machine learning, deep learning, computer vision.	May 2019 - July 2019 Karnataka, India
	Frontend Developer IRIS, NITK Worked on frontend design and development for 'IRIS', a digital portal for all administrative and academic activities in NITK, with five thousand daily active users.	August 2018 - April 2018 Karnataka, India
	Python Developer Pinnacle Media, Manipal, India Worked on implementing real-time face detection and recognition using OpenCV, dlib and scikit-learn on Raspberry Pi	May 2018 - July 2018 Karnataka, India
Interests	Computer Vision, Reinforcement Learning, Bionics, Augmented Reality	