

## Russel Shawn Dsouza

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Education	<b>National Institute of Technology Karnataka</b> , India <i>B.Tech in Electronics and Communications Engineering</i>	2017-2021 CGPA: 8.7
	<b>Little Rock Indian School</b> , Karnataka, India <i>K-12</i>	2004-2017
Notable Projects	<b>Computational Histopathology</b> Worked on implementing convolutional encoder-decoder architectures in PyTorch to perform the segmentation of nuclei in H&E stained histopathology images of kidney tissues.  <b>Detecting Ponzi schemes in Ethereum smart-contracts</b> Used a semi-supervised learning based model, built using PyTorch and torchtext, on raw bytecode of Ethereum smart contracts mined using Google BigQuery, to detect Ponzi schemes.  <b>Detecting fake news using deep learning</b> Built a classifier using PyTorch and torchtext to identify the truth level of news articles from human verified facts and statements.  <b>Face detection and recognition</b> Implemented real-time face detection and recognition using OpenCV, scikit-learn and dlib on a Raspberry Pi.	
Technical Skills	<b>Languages:</b> Python, MATLAB, C, Rust, JavaScript, C++, Verilog <b>Frameworks/Libraries:</b> PyTorch, Keras, torchvision, scikit-learn, OpenCV <b>Web development:</b> Django, ExpressJS, ReactJS, GatsbyJS, GraphQL <b>Tools:</b> git, Docker, Linux, Google BigQuery, Xilinx Vivado, L <sup>A</sup> T <sub>E</sub> X <b>Hardware:</b> Xilinx Artix 7 FPGA, Arduino, Raspberry Pi	
Experience	<b>Winter Research Intern</b> under Dr. Shyam Lal, NITK Working on the design and development of an automated kidney cancer detection system from H&E stained histopathology images.	Dec 2019 - Present Karnataka, India
	<b>Summer Research Intern</b> under Dr. Shyam Lal, NITK Worked on reproducing state-of-the-art deep learning architectures for the segmentation of H&E stained histopathology images of kidney tissues.	May 2019 - July 2019 Karnataka, India
	<b>Frontend Developer</b> IRIS, NITK Worked on building the frontend for the official student management portal 'IRIS' with more than five thousand daily active users including students, faculty, administrators and alumni. Mentored a freshman intern on frontend testing.	August 2018 - April 2019 Karnataka, India
	<b>Python Developer</b> 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	Medical imaging, computer vision, computational neuroscience and augmented reality	