Russel Shawn Dsouza

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Education	**National Institute of Technology Karnataka**, India *B.Tech in Electronics and Communications Engineering*	2017-2021
	Little Rock Indian School, Karnataka, India *K-12*	2004-2017

Projects

Nuclei Segmentation
Segmentation of nuclei in histopathology images of kidney tissues to aid early diagnosis of cancer using Deep Convolutional Neural Networks(CNNs)

Detecting Ponzi Schemes in Ethereum smart-contracts
Using semi-supevised learning on raw bytecode of smart contracts deployed on the Ethereum blockchain mined using Google BigQuery

Fake news detector
Classifying news into true, mostly true, half true, barely true, false and pants-fire to help prevent the spread of fake news using Natural Language Processing(NLP)

Real-time face detection and recognition
Implementing real-time face detection and recognition using OpenCV, scikit-learn and dlib on a Raspberry Pi

Technical Skills

Languages: Python, MATLAB, C, JavaScript, Verilog, LaTeX
Frameworks and libraries: PyTorch, torchvision, torchtext, scikit-learn, scikit-image, OpenCV, numpy, pandas
Web/App development: Django, React, JavaScript
Applications: Google BigQuery, Xilinx Vivado

Experience

Research Assistant — Nov 2019 - Present
under Dr. Shyam Lal, NITK — Karnataka, India
Design and development of automated colon cancer detection system from H&E stained histopathological images.

Research Intern — May 2019 - July 2019
under Dr. Shyam Lal, NITK — Karnataka, India
Worked on 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.

Frontend Developer — August 2018 - April 2018
IRIS, NITK — Karnataka, India
Worked on building the frontend for the official student management portal used by more than 10 thousand people including students, faculty, administrators and alumni.

Python Developer — May 2018 - July 2018
Pinnacle Media — Karnataka, India
Worked on implementing real-time face detection and recognition using OpenCV, dlib and scikit-learn on Raspberry Pi

Interests

Computer Vision, Reinforcement Learning, Bionics, Augmented Reality