Russel Shawn Dsouza

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

Projects

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

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

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 Classifier
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)

Spell Checker
A spell checker written in pure C

Elections on Blockchain
Using solidity and Microsoft Azure Blockchain workbench for secure, reliable elections deployed on the blockchain

Computer Skills

Languages: Python, MATLAB, C, JavaScript, Verilog, LaTeX
Frameworks and Libraries: PyTorch, torchvision, torchtext, scikit-learn, scikit-image, OpenCV, numpy, pandas
Web Development: Django, React, JavaScript, HTML, SCSS
Applications: Microsoft Azure, Google BigQuery, Xilinx Vivado

Experience

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, Bionics, Cybernetics, Reinforcement Learning, AR, VR