

Russel Shawn Dsouza

National Institute of Technology
Karnataka, India
russel.171ec143@nitk.edu.in

(91+) 9611212081
linkedin.com/in/rshwndsz
github.com/rshwndsz

| | | |
|------------------|---|--|
| 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. Predicting truth level of news articles Built a classifier using PyTorch and torchtext to classify news articles into true, mostly true, half true, barely true, false and pants-fire. 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 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 | |