Rahul SHIV CHAND

ABOUT ME

ADDRESS:	VYAS 182, BITS Pilani, Rajasthan - 333031
PHONE:	+91 72404 66420
EMAIL :	f2015163@pilani.bits-pilani.ac.in
INTERESTS:	Computer Vision, Multi-robot interaction, Reinforcement Learning

EDUCATION

Current	BE. (Hons.) in COMPUTER SCIENCE AND ENGINEERING
Aug '15 - Jul '19 (Exp.)	**Birla Institute of Technology and Science, Pilani**, Pilani, India
	CGPA **9.732/10** (Semester V)

SKILLS

Programming Languages

• R • C • C++ • Verilog • Python (openCV, tensorflow, numpy)
• Prolog • Scheme • Java

WORK EXPERIENCE

AUG - DEC '17	Teaching Assistant for the course LOGIC IN COMPUTER SCIENCE under PROF. SHAN BALASUBRAMNIAM
	Responsible for conducting tutorial sections for students and creating tutorial sheets and exercises.
MAY - JUL '17	Summer Research Intern at INDIAN INSTITUTE OF REMOTE SENSING (IIRS), Dehradun, India
	The project involved two tasks 1) Development of an ensemble model for Road-Asset managment (Image-segmentation) using DeepConv networks (FCN and Faster-RCNN). 2) Implementation of a fully automatic vehicular tracking program using CNN and Haar-like features.

UNIVERSITY COURSEWORK

Computer Science	Mathematics	Sciences
Discrete Structures	Multi-Variate Calculus	Mechanics and Oscillations
Logic	Linear Algebra and Complex Analysis	Principles of Economics
Theory of Computation	Probability and Statistics	Thermodynamics
Operating Systems	Differential Equations	General Chemistry
Data Structures and Algorithms		General Biology
Database Systems		
Computer Programming		
Principle of Programming languages		
Object Oriented Programming		
Machine Learning		
Data Mining		

ONLINE COURSEWORK

COMPLETED

CS231n: Convolutional Neural Networks for Visual Recognition	Fei-Fei Li, Stanford University
Reinforcement Learning	David Silver, University College London

ONGOING

Theories of Deep Learning (STATS 385)	Stanford University

PROJECTS

MAY - JUL '17 | Proposed and developed an ensemble DeepConv model for Road-Asset Mapping
Internship Project, Indian Institute of Remote Sensing (IIRS), ISRO , Dehradun, India
The project involved developing a program for road-asset mapping and vehicular tracking which can be used for traffic surveillance using cameras mounted by IIRS around Dehradun. The program used an ensemble of fully convulational networks and Faster-RCNN trained on data obtained from IIRS cameras and ImageNet. (Journal Report submitted to IIRS)

OCT - NOV '17 | Q-learning model for Atari Games.
Course Project (Machine Learning), BITS Pilani, India
The project was aimed at implementing a Q-learning model capable of human level performance on classic Atari Games like Pong and Breakout. The project was implemented on Open-AI gym and performed at par with best human players. (Report)

SEPT - DE '16 | Classification of Twitter users into Bots and Humans.
Course Project (Machine Learning), BITS Pilani, India
The project focused on implementing a Machine learning model to classify Twitter users. An ensemble of different classifiers was used on the cresci-2017 dataset to obtain an accuracy of 86.47.(Report)

AUG - DEC '17 | Path planning in unexplored terrain
Study Project (Dr. Avinash Gautam), BITS Pilani, India
The project involved a thorough literature Review of existing algorithms for coverage and search in unexplored terrain and implementation and optimization of the existing algorithms on stage-ROS.

AUG - CURRENT | Anomaly Detection in Surveillance Videos
Informal Project (Dr. Navneet Goyal), BITS Pilani, India
Part of the team working under Prof Navneet Goyal aiming to develop a model to detect suspicious activity from surveillance videos. The model will be tested on the McGill University Dominant and Rare Event Detection Data set.(End term presentation)