

Rahul Chand

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EDUCATION

Birla Institute of Technology, Pilani | 2015-19

Bachelor of Engineering (Honors) in Computer Science and Engineering,

GPA - 9.64/10, Class Rank - 6/180+

Selected Coursework: Machine Learning, Pattern Recognition, Logic in Computer Science, Neural Networks and Fuzzy Logic, Data Mining, Information Retrieval, Graphs and Networks, Computer Architecture, Operating System

Activities and Societies: Coding Club (2016-17), ACM(2016-17)

TEACHING EXPERIENCE

Teaching Assistant for the below courses. Graded assignments, prepared course projects and supervised lab sessions.

- **Fall 2018:** Data Mining, Principles of Programming Languages, Computer Programming
- **Spring 2018:** Data Structures and Algorithms, Database Systems
- **Fall 2017:** Logic in Computer Science

INDUSTRY AND RESEARCH EXPERIENCE

Arcesium, Hyderabad, India | Software Engineering Intern

May 2018-July 2018

- Worked on the Fund Capital and Accounting team, designed and developed libraries for capturing and representing back-end calculations using Java frameworks and SQL. Created a JavaScript library to display calculation flow at back-end in the form of interactive directed graphs.

Indian Institute of Remote Sensing, Dehradun, India | Research Intern

May 2017-July 2017

- Worked with the Geo-informatics Department on their road-asset management project.
- Designed and developed a deep learning solution on Keras using Faster-RCNN and FCN for road-asset mapping in the context of Indian roads. The model was trained on VOC2012 dataset and images of Dehradun roads obtained from IIRS.
- **Report:** github.com/RahulSChand/IIRS-Vehicle-Detection

Video Analytics Lab, IISC, India | Undergraduate Thesis student

Jan 2018-Ongoing

- Working under Prof. Venkatesh Babu for my undergraduate thesis on unsupervised optical flow estimation using matrix capsule networks.

PROJECTS

Compiler construction for a C-subtype language | Course project, Compiler Construction

- Designed and developed the following components: top-down parser, lexical and semantic analyzer, code generator for a C-subtype language.
- **Code:** github.com/RahulSChand/Compiler-Construction.

Q-learning model for Atari games | Course project, Machine Learning

- Trained a 5 layer neural network for Atari games using Double Q-learning algorithm.
- **Code:** github.com/RahulSChand/Q-learning-for-Atari

Attention network for reading comprehension and question answering | Course project, Neural Network

- Implemented the paper "Multi-Granularity Hierarchical Attention Fusion Networks for Reading Comprehension and Question Answering paper" on TensorFlow for Squad Dataset.
- **Code:**
<https://github.com/RahulSChand/Multi-Granularity-Hierarchical-Attention-Fusion-Networks-for-Question-Answering---TensorFlow>

ACHIEVEMENTS

- One of 30 students selected from Maharashtra to attend training camp for INMO (Indian National Maths Olympiad) 2015.
- Merit-cum-Need scholarship at BITS Pilani for all 7 semesters.

SKILLS

Programming Language: C++, Python, Java, JavaScript **Libraries and Frameworks:** TensorFlow, OpenCV, Keras, PyTorch