

Rahul Chand

+91-7240466420/7286063972 | chandrahul0320@gmail.com

GitHub: [/RahulSChand](#) | LinkedIn: [/RahulSChand](#)

EDUCATION

Birla Institute of Technology, Pilani | 2015-19

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

GPA - 9.62/10, 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

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

Microsoft Research India, Bangalore, India | Research Fellow

Aug 2021-July 2023

- Worked under Yashoteja Prahbu & Pratyush Kumar(IIT madras ai4bharat) on developing a dense-sparse factorization scheme Transformer compression. Paper submitted to EMNLP.
- Worked under Manik Verma as part of Extreme classification(XC) team at MSR India responsible for Bing search and Bing Ads.
- Worked on developing a regularization method to improve & compress state-of-the-art XC algorithms (paper under review).

Arcesium, Hyderabad, India | Software Engineer & Intern

Aug 2019-May 2021 & July-May 2018

- Worked in the Performance and Accounting team as a full stack developer.
- Responsible for migrating the team's UI from JQuery to ReactJS. Also worked as part of the team responsible for developing microservices for handling large volumes (>100k) of trades daily.
- Experience with building web applications using ReactJS, Java, Kotlin, Python, T-SQL.

Video Analytics Lab, IISC, India | Undergraduate Thesis student

Jan 2019-July 2019

- Worked under Prof. Venkatesh Babu for my undergraduate thesis on optical flow estimation using matrix capsule networks.
- Paper: <https://arxiv.org/abs/2304.00306>

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

PROJECTS

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](#)

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: Python, C++, Java, JavaScript, Kotlin

Libraries and Frameworks: PyTorch, Numpy, TensorFlow, Keras, HuggingFace, ReactJS, Accelerate