

Rahul Kumar

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ACADEMIC DETAILS

Education	Institute	Year	CPI / %
B. Tech: Computer Science and Engineering	IIT Kharagpur	2016- Till date	9.71 / 10
Intermediate	DAV KDPS, Ranchi	2014 - 2016	95.4 %

MAJOR PROJECTS

- **Kharagpur RoboSoccer Students' Group** (Research Project) <http://krssg.in/>
(Guide: Prof. Jayanta Mukhopadhyay, Feb'17 - till date)
 - Implementing codes to make autonomous soccer playing bots. .
 - Research Areas: multi-agent robot system, Path Planning, Computer Vision.
- **RRT Simulator**
 - Developed an interactive GUI interface to simulate a path generated by RRTs avoiding obstacles using C++ and PyQt. <https://github.com/vernwalrahul/RRTSimulator>
- **Movie Recommendation System**
 - a movie recommendation system using collaborative filtering and regression algorithm trained on movielens dataset. <https://github.com/vernwalrahul/Recommendation-system>

EXPERIENCE

- **Instructor** (MIT-IIT Robotics Workshop)
(Guide: Prof. Sudeshna Sarkar, 1st May'17 -15th May'17)
 - We conducted a fortnight long Robotics workshop for higher school students
- **Executive Head** (Kharagpur Open Source Society) <https://kossiitkgp.in/>
(Guide: Prof. Animesh Mukherjee, Jan'17 - till date)
 - We conducted git and basic linux workshop for first and second year undergraduates at IIT Kharagpur.
 - Organized open source workshop for the students of NIT Sikkim, India.
- **Image Processing Mentor** (IEEE Robotics Winter Workshop)
We conducted a week-long IP workshop for first and second year undergraduates at IIT Kharagpur. I taught basic Image Processing using OpenCV and C++.

AWARDS AND ACHIEVEMENTS

- **Robocup 2017.**
First team from India to qualify for SSL, Robocup 2017 held in Japan, among top 24 teams across the globe.
- **Best Fresher, Conquest, Kshitij 2017.**
Participated in an Robotics Event at Kshitij 2017, Asia's largest techno-management fest. Awarded the best fresher at IIT Kharagpur.
- **KVPY 2016. All India Rank 9**
Secured All India Rank 9th in one of the prestigious examination initiated by Department of Science and Technology, Government of India

TECHNICAL SKILLS

- **Languages** C, C++, Python, Matlab, \LaTeX
Libraries and Tools Tensorflow, OMPL, OpenCV, ROS, PyQt, Octave
Field of Interest Computer Vision, Path Planning, Machine Learning.