Rahul Kumar

D 410, Nehru Hall,
Indian Institute of Tehnology, Kharagpur
West Bengal, INDIA - 721302

Email-id : **vernwalrahul@iitkgp.ac.in**
Mobile No.: **7427973355**
Github: https://github.com/vernwalrahul/

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.

- **Action/Event Recognition for Safety Analytics** (Research Project)
  (Guide: Prof. Pabitra Mitra , Dec'17 - till date)
  - Research Areas: Computer Vision, ConvNets, Encoder-Decoder models.

- **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 movie-lens 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 presitigious 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.