

Rajendra Singh

Fourth year
Computer Science and Engineering
Indian Institute of Technology, Palakkad

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DOB : 27th Nov 1997



SUMMARY

- Skilled in Robotics, ML, DL and AI.
- Interned with UST Global, Researshala and IIT Madras.
- Former Head, Robotics club, IIT Palakkad
- Selected for KVPY fellowship.
- IIT-Jee 99.3 percentile.

EDUCATION

Program	Institution	%/CGPA	Year of Completion
B. Tech	Indian Institute of Technology, Palakkad	7.19 (Till VI Semester)	2020
XII	Delhi Public School, Udaipur	89%	2016
X	Delhi Rajasthan Public School, Rajsamand	96%	2014

SCHOLASTIC ACHIEVEMENTS

- Qualified for Round 2, Smart India Hackerthon Hardware edition. 2019
- Winner, [Kaizen Robotics Program](#) Competition, Lema labs. 2017
- Awarded [KVPY Fellowship](#) by DST, Govt. of India. 2016
- Qualified [IIT-Jee](#) Advanced 2016 with a percentile of 99.3 amongst a total of 1.2 million students. 2016
- Ranked First, [Science Quiz](#) by Science and Technology Department, Rajasthan. 2014
- In top 10, [Class X](#), Board of Secondary Education, Rajasthan. 2014
- [Best Student of Year Award](#) 2014–15, Rajsamand District Private Education Committee. 2014
- Awarded [Merit Scholarship](#) Class IX, Army Welfare Education Society. 2013

TECHNICAL SKILLS

- **AI and Robotics**
I'm skilled at ROS, RL, brain computer interface, embedded system, robot control and manipulation.
- **Deep learning and data science**
I've done several projects on NLP and CNN.
- **Competitive Programming**
I participated in various competitions and have strong hold on C, C++ and Python.
- **CSE Basics**
In depth knowledge of Data structures and Algorithms, DBMS, OS, Computer networks and Compilers.
- **Hardware**
Rplidar A2M8, Realsense D435, GstarIV GPS, Nvidia Jetson(Tx2, nano), Raspi3B+, Zybo FPGA, Arm Cortex-M0+ , Atmega16, NodeMCU, GSM, Pyboard, OpenMV

SELECTED PROJECTS

- [Implementation](#) of **slam** on [AGV](#) by sensor fusion of data from 2D lidar and 3D camera.
 - Vision based [control](#) and [trajectory](#) planning of **robotics manipulator** using pointcloud data.
 - [Path planning](#) for **swarm** of two drones, for Smart India Hackerthon 2019.
 - Built **EOG** based typing [system](#) for individual with motor neuron diseases.
 - Built automated **toilet cleaning robot**, Ranked 6th in Inter IIT 2017-18, IIT Madras.
 - Build [model](#) for **satellite image classification** using just 14 images, for Inter IIT 2018-19, IIT Bombay.
 - Built [POC](#) for **IOT** based autonomous farming under Makerthon 2017, Lema Labs, IIT Madras Research Park.
 - Build **ROS** based surveilling [robot](#).
- For more projects, please visit: <https://iamrajee.github.io/projects/>

EXPERIENCES

- Summer intern UST Global, Trivandrum
[Implemented](#) SLAM and robot manipulation. May-July, 2019
- Data Science intern, Researchshala, Chandigarh
Worked on [various](#) NLP techniques May-July, 2018
- Vistaar Program, IIT Madras
Built [Prusa i3 3D Printer and 3D Printed Robotic Arm](#) May-June, 2017

RELEVANT COURSES AND WORKSHOPS

Courses

- Probability, Linear Algebra
- ML, AI, RL and DL
- Robot manipulation and control

Workshops

- Machine Learning Workshop
- Robotic Basics and Advance Workshop
- IOT Workshop

POSITION OF RESPONSIBILITY

- Head of Robotics Club, IIT Palakkad July 2018 - May 2019
- Event coordinator, Rajasthan-Assam, EBSB, IIT Palakkad January 2019

EXTRACURRICULAR ACTIVITIES

- Active member of Data Analysis and Coding Club, IIT Palakkad
- Teaching at secondary school of Palakkad under NSS, IIT Palakkad

REFERENCES

• Mr. Ashok Nair

Director Service Delivery,
UST Global, Thiruvananthapuram
E-Mail: Ashok.nair@ust-global.com

• Mr. Shubham Jain

Founder and CEO,
Researchshala, Chandigarh
E-Mail: shubham@researchshala.com

• Dr. Piyush P. Kurur

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Science and Engineering, IIT Palakkad
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