

# Rajendra Singh

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

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**DOB** : 27<sup>th</sup> Nov 1997



## SUMMARY

- Skilled in Robotics, ML, DL and AI.
- Interned with **UST Global** and **Researshala**.
- Selected for **KVPY** fellowship.
- Former head, Robotics club, IIT Palakkad

## EDUCATION

Program	Institution	%/CGPA	Year of Completion
B. Tech	Indian Institute of Technology, Palakkad	7.19	2020 (Till VI Semester)
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.
- In depth knowledge of Data structures and Algorithms, DBMS, OS, Computer networks and Compilers.

## SELECTED PROJECTS

- Built [Automated Toilet Cleaning Robot](#), Ranked 6<sup>th</sup> in Inter IIT 2017-18, IIT Madras
- Built an [IOT Based Autonomous Farming](#) under Makerthon 2017, Lema Labs, IIT Madras Research Park
- Built electrooculogram based Assistive Communication [System](#)
- Built ROS based autonomous navigation and mapping [robot](#)
- [Satellite Image Classification](#), Inter IIT 2018-19, IIT Mumbai
- [Swarm](#) of two Unmanned aerial vehicle, Smart India Hackerthon 2019

## EXPERIENCES

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

## RELEVANT COURSES AND WORKSHOPS

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### 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

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

## EXTRACURRICULAR ACTIVITIES

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

## REFERENCES

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### • Mr. Ashok Nair

Director Service Delivery,  
UST Global, Thiruvananthapuram  
E-Mail: [Ashok.nair@ust-global.com](mailto:Ashok.nair@ust-global.com)

### • Mr. Shubham Jain

Founder and CEO,  
Researchshala, Chandigarh  
E-Mail: [shubham@researchshala.com](mailto:shubham@researchshala.com)

### • Dr. Piyush P. Kurur

Professor, Department of Computer  
Science and Engineering, IIT Palakkad  
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