



Aman Sagar

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ABOUT ME

I am a sophomore undergrad in National Institute of Technology ,Rourkela . I am interested in Robotics , Applied Machine Learning and Research . My hobby is to play Badminton,Chess, Cylcing and Reading books .

EDUCATION

DAV PUBLIC SCHOOL

2017-2010

10TH/MATRICULATION

- CGPA: 9.6

DAV PUBLIC SCHOOL

2017-2019

12TH/INTERMEDIATE

- Physics , Chemistry , Mathematics , English and Information Technology.
- Percentage:82

NATIONAL INSTITUTE OF TECHNOLOGY , ROURKELA

2020-Present

B.TECH

- Civil Engineering (4 year B-Tech Course)
- CGPA:8.17

EXPERIENCE

WORK INDIA APP

2021-Spring

- Made an app to increase interaction of empty post in company and candidate.
- Used Google-Firebase to store and retrieve data and authenticate.

WEATHER IOT STATION

2021-Autumn

- Used various sensor to sense the remote Temperature , Pressure , Humidity , Heat Index , Altitude .
- Made a Website which can fetch data from these sensors using Nodemcu.

E-YANTRA ROBOTICS COMPETITION(THEME: AGRIBOT)

2021-Winter

- A Project Based Learning Robotics Competition where our team have to build the system for a Automation Ground Vehicle(AGV) to traverse in a simulated Greenhouse Environment.
- Autonomous Navigation(using PID controller), Perception(using Opencv), Pick and Place(using Moveit Motion Planner) etc. are the step wise tasks to be done under the guidance of mentors.

BASIC-RESEARCH PROJECT

2021-Present

- Full body control of NAO humanoid Robot using (D-H parameters)Forward Kinematic, Inverse Kinematics and ROS.
- Reading Research Papers to learn how to use Microsoft-Kinect sensor to imitate Real time Human Gestures.

SKILLS

PROGRAMMING LANGUAGES	Experienced: C++ (DSA,OOPs) C Python
FAMILIAR	Arudino Gazebo ROS Webot Rviz
TOOLS AND TECHNOLOGIES	App development (Android Studio) Front End Web development (HTML ,CSS)
FRAMEWORKS & LIBRARIES	Google Collab Open-cv Numpy
OPERATING SYSTEM	Windows , Ubuntu16.04 , Ubuntu18.04 , Ubuntu 20.04

EXTRA

TEAM TIBURON, THE AUV TEAM OF NIT ROURKELA

2021-Present

- I have been actively contributing in the team Tiburon as a part of the Software Subsystem . I am Currently working on different domains like Perception , Navigation , Simulation of the Autonomous Under Water Vehicle(AUV) for various National and International Competitons like ROBOSUB, SAUVC,NIOT.

OTHER ACTIVITIES

Video Editing , Photography , Content Writing , Competitive Programinig (Codechef Rating - 1539)