

AVNEESH UPADHAYAY

B.Tech. Metallurgical & Materials Engineering
UG (III Year II Semester)

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Registration No: B.Tech./MT/16118020/2019

Indian Institute of
Technology
Roorkee



Area of Interest

Data Science, Machine Learning and Robotics.

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2018	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	69.05 %
2015	Twelfth	Kedar Singh Inter College, Kanpur, UP Board	85.4 %
2013	Tenth	Kedar Singh Inter College, Kanpur, UP Board	88.0 %

Projects

Martian Harmony | IIT Roorkee

August 2017 - March 2018

- Martian Harmony is the name given to the Robotic band.
- Worked on the bot that can play the guitar on its own.
- The bot is programmed with the help of Arduino IDE and consists of feedback network in strumming part to maintain synchronization.
- The bot is also displayed in Srishti the Annual Techno-Hobby Exhibition of IIT Roorkee.

Factors for Brand Switching in Telecom Industry | IIT Roorkee

June 2018 - December 2018

- Collected raw data from about 500-600 persons by building and circulating a questionnaire related to telecom industry.
- Cleaned that Data into a structured format and then visualize the trends using Tableau.
- Developed a null hypothesis on the basis of the trends observed in the visualization.
- Applied basic statistical testing methods like chi-square, MANOVA etc.
- All these processes were done under the guidance of our course coordinator.

Interns/Work Experience

- Winter'18 Intern at Practice.ai as a Product Manager.
- Basic Duties include thinking of new products and strategies for old one and implementing them.
- Regular Co-ordination with the development team and other teams in order to build the new products and improving the existing.

Awards / Scholarships / Academic Achievements

- Secured AIR 5652 in JEE Advanced 2016.
- Secured general state rank of 750 in UPSEE 2016
- In NEST 2016, secured AIR 200 and had been in top 99.452 percentile students.
- Participated in various quizzes like Bharat ko Jaano-2011 and NAO 2011

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Skills

Computer languages	Python, C++, R Programming and MySQL
Software Packages	Tableau, Gretl, Rapid Miner, SSDT-BI, Arduino (Basic), SolidWorks
Additional Courses Taken	Economics, Market Research, Machine Learning A-Z by Kirill Eremanko, Learning Python for Data Analysis and Visualisation by Jose Portilla, Stanford University course on Machine Learning by Andrew Ng, Data science A-Z by Kirill Eremanko, Python Programming A-Z by Kirill Eremanko.
Languages Known	English (SRW), Hindi (SRW)

Positions of Responsibility & Extra Curriculars

Technical Mentor | ASME IIT Roorkee Chapter

2019-present

- Elected as the Technical Head of ASME IIT Roorkee Chapter for the upcoming academic session.
- Basic Duty is to be the Technical tower of the group and to provide support to the juniors in the future competitions to come.

Joint Secretary | ASME IIT Roorkee Chapter

2018-2019

- Joint Secretary at ASME IIT Roorkee during my 3rd Year.
- Organised and given lectures and workshops on Robotics.
- Been in regular contact with professors and officials for the proper functioning of the group.
- Mentored Juniors during summer vacations on various aspects of Robotics.

Cognizance Head | ASME IIT Roorkee Chapter

March 2019

- Guided all the contingent members in total of four different competitions.
- Provided all the support needed to all the 7 teams as a head.
- Taught some of my teammates how to coordinate Armageddon based on my previous experience.

ASME E-fest Asia Pacific

Feb 2019

- Participated and finished at Fourth position at Student Design Challenge 2019.
- This year problem statement is to make an advanced Pick-and-Place bot.
- Led a team of 7 members for a duration of 5-6 months to achieve good results.

Co-coordinator | Armageddon IIT Roorkee

March 2018

- Armageddon is an annual robot fighting event which takes place during Cognizance.
- Contacted with different teams from all over India for the participation.
- Inspected robots to check if they were following the guidelines.
- Solved some of the disputes with the participants.

ASME E-fest Asia Pacific

March 2018

- Participated in Student Design Challenge in which we had to make Football playing bots.
- Worked on the design and build the arena simulation in SolidWorks for STC Presentation.
- Created Defender as well as Attacker bots with different mechanisms involved.

Cognizance, IIT Roorkee

March 2017

- Worked as Volunteer for Armageddon, a robot-fight event.
- Worked as Volunteer for Intaglio, a metallurgical event.

N.S.S., IIT Roorkee

2016-2017

- Worked as Volunteer for various events of NSS.
- Taught Paper-bag making to the housewives of nearby villages so that they could earn their own living.