



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2020	M.TECH Dual Degree 5Y	IIT Kharagpur	6.71 / 10
2015	Intermediate Public Examination	BIEAP	94.9%
2013	SSC	BSEAP	9.2 / 10

## INTERNSHIPS

Internship | @MES-Tech | Descriptive Analytics on Industry 4.0 May - July 2019

1. Descriptive analysis of DAIMLER production plant data for identification of Bottleneck Stations, Departments, Lines, Shops, Defects and Variants which are affecting the efficiency of the plant.
2. Data cleaning using Excel to remove missing values and outdated information from the data and to improve the quality of data.
3. Data Visualization using Tableau and Factory Talk Analytics to visualize complex data and to understand trends, outliers, and patterns in data and also for preparing interactive dashboards and reports.
4. Identified trends and patterns of Bottleneck Stations, Departments, Shops, Defects, and Variants.
5. Identified the relation between lead time and line stop by patterns obtained and how new Variants affect the line stop.

Internship | @Ford India Private Limited | Energy Conservation on Water Cooling Towers June - July 2018

1. Worked on water cooling towers to minimize power consumption and water consumption.
2. Examined the design of cooling tower fan and noticed major drawbacks of power consumption was due to blade-angle and profile of cooling tower fan.
3. Analyzed the current profile of cooling tower fan and observed that a portion of the blade was not aerodynamically designed.
4. Proposed a new design of fan which would reduce power consumption by allowing hot air to escape from the tower at a faster rate and successful in reducing power consumption by maximum of 45% and an average of 22 % with a payback period of just 6 months.

## PROJECTS

B.Tech Project | Fluid Flow on a Fractured Surface July - Nov 2018

1. Fabricated parallel-plate configuration transparent prototype to observe the fluid flow and dispersion over the fractured rough surface under the supervision of Dr. Aditya Bandopadhyay.
2. Used 1-Hp motor pump to transmit water over the surface and injected a dye to observe the fluid flow path.
3. Experimental results show that the fluid flow over a fractured surface often occurs in preferred flow paths and which also depends on Hurst exponent of the fractured rough surface.

Academic Design Project | Railway Passenger Car Suspension System Jan - Apr 2018

1. Worked along with a team on a Watts Straight-line mechanism for arresting to and fro movement in a railway passenger car suspension system under the guidance of Prof. Sovan Lal Das.
2. Proposed to attach a new 3 bar-link to the current suspension system which will arrest to and fro movement and helps to move passenger car without any disturbance.

## POSITIONS OF RESPONSIBILITY

General Secretary Sports & Games | Vidya Sagar Hall of Residence July' 2017 - Apr' 2018

1. Elected by an electorate of 358 students to represent our hall in inter-hall general championship, IIT Kharagpur.
2. During my tenure, I actively lead the team in many events and successfully brought a huge raise in graph.
3. We won 3 gold and 1 bronze medals in athletics-2017-18 which was after 4 years and gave tough competition in badminton as well as in cricket to the opponents.

Secretary Sports & Games | Vidya Sagar Hall of Residence July' 2016 - Apr' 2017

1. During my tenure, I organized several practice sessions for various sports and made sure that there was active participation from the students of my hall in inter-hall and inter-IIT competition.

Web Developer | Food and Mess Monitoring Committee July' 2016 - Apr' 2017

1. Developed a portal for students to complain about their mess problems, when a student raise complaint in the portal, the general secretary mess of respective hall would be notified and we would be monitoring whether action has been taken or not.
2. Took part in raids on eateries and restaurants in IIT Kharagpur for ensuring they are using the best quality raw materials.
3. Responsible for managing all the reports of eateries and restaurants which would be forwarded to director of IIT Kharagpur.

## SKILLS AND EXPERTISE

1. **Computer Skills:** Solid Works, MS Office, Excel
2. **Programming Languages:** C, C++, Python - (Numpy, Pandas)
3. **BI tool:** Tableau, Factory Talk Analytics
4. **Web Technologies:** HTML, CSS, Bootstrap (Framework)

## COMPETITION/CONFERENCE

1. Qualified amongst **1.3 million applicants** in JEE Mains and cracked amongst **150K applicants** in JEE Advanced.

## COURSEWORK INFORMATION

1. Probability and Statistics
2. Programming and Data Structures
3. Statistical Decision Modelling
4. Operations Research
5. Robotics and Computer Controlled Machines
6. Game Theory and Applications
7. Heat Transfer
8. Logistics and Supply Chain Management
9. Facility Layout and Design
10. Work System Design
11. Intelligent Machines and System
12. Foundations of Entrepreneurship

## EXTRA CURRICULAR ACTIVITIES

1. NCC **B** certificate holder and also participated in combined annual training camp. NCC cadet for two consecutive years 2015 - 2017 and enrolled in Battalion -1(B) EME-COY NCC Kharagpur.
2. Completed Machine Learning by Andrew NG course, applying the skills in my M.Tech project for predicting the lead time of new variant and to optimize current line-stop in the production plant (DAIMLER).
3. Actively participated in various sports like Cricket, Athletics, Volleyball on the behalf of Vidya Sagar hall of residence in inter hall competition, IIT Kharagpur and finalist in athletics 100 & 200 meters sprint running in inter hall Competition, IIT Kharagpur.