

# Ani Agrawal

Pre-Final Year(B.Tech) | Mechanical Engineering | Indian Institute of Technology Jodhpur  
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## EDUCATION

### IIT JODHPUR

B.TECH IN MECHANICAL  
ENGINEERING

Expected 2022 | Jodhpur, India

CGPA: 7.21/10.0

\*Till IIIrd semester

### DELHI PUBLIC SCHOOL

SENIOR SECONDARY SCHOOL | CBSE

April 2017 | Bikaner, India

Percentage: 88.4%

### SOPHIA SECONDARY SCHOOL

SECONDARY SCHOOL | CBSE

April 2015 | Bikaner, India

CGPA: 9.4/10.0

## COURSEWORK

### RELEVANT COURSES

- Introduction to C Programming
- Linear Algebra and calculus
- Probability, Statistics and Random Processes
- Complex Analysis and Differential Equations
- Basic Electronics

### MOOC'S

- Data Structures and Algorithms
- Object Oriented Programming\*  
(\*ongoing courses)

## SKILLS

### PROGRAMMING

- C • C++ • Arduino
- Matlab • HTML (Familiar)

### SOFTWARES

- Ansys • Solidworks

### PLATFORMS

- Windows • Linux

### OTHERS

- NodeMCU
- Latex

## LINKS

LinkedIn:// Ani Agrawal

Hackerrank:// @aniagrawal27

InterviewBit:// aniagrawal

Codechef:// aniagrawal27

## PROJECTS

### SMART IRRIGATION SYSTEM | IOT AND MACHINE LEARNING

Jan 2020 - Present | Guide: Dr. Ravindra Brammajyosula

- Designed an IOT based smart irrigation system based using ESP8266 NodeMCU module, Arduino Uno and DHT11 sensor
- Processed data using Logistic Regression to train the mathematical model for predicting rainfall to minimise the usage of water
- Achieved High testing accuracy of 82.7% when tested on 20% of dataset

### SAE-INDIA BAJA | 2019-2020 EDITION

Feb 2019 - Jan 2020 | Guide: Dr. Sudipto Mukhopadhyay and Dr. Chandan Pandey

- Worked in the field of complete Braking Zone of the vehicle
- Designed the Pedal and Brake disc using Solidworks
- Carried out the Pedal Ratio calculations using MATLAB
- Optimised the Brake disc and Pedal using Ansys
- Participated in the manufacturing of vehicle for dynamic event

### LINE FOLLOWING BOT | SELF PROJECT

Dec 2018 - Jan 2019 | IIT Jodhpur

- Designed and created an Arduino based Line Follower Bot
- Trained a bot to analyze the correct path using Infrared Sensor

## EXPERIENCE

### TVS MOTORS | INDUSTRIAL INTERN

May 2019 - July 2019 | Hosur, Tamil Nadu

- Assimilated the culture of the company and their team management
- understand the industry at different stages of product
- Performed study and had hands-on experience over an automobile

## ACHIEVEMENTS

- Achieved score of 132.5/200.0 in virtual round and got selected in top 120 for the main event of SAE INDIA BAJA 2020
- Gold level on Hackerrank in C++ (5 star)
- Ranked among the top 0.5% of 1.4 million applicants in Joint Entrance Exam 2018

## POSITION OF RESPONSIBILITY

### COUNSELING SERVICE | STUDENT GUIDE

Aug 2019 - May 2020 | IIT Jodhpur

- Organised an Orientation Program for the batch 2023 of strength 352
- Mentored 8 freshmen students for their smooth transition into college life

## EXTRACURRICULAR

- Assistant Head at IGNUS Pronite | 2020
- Participated as a Volunteer in the marketing team for IGNUS (annual socio-cultural tech festival of IIT Jodhpur) | 2019
- Core member of Drama Club, IIT Jodhpur | 2018-Present
- Represented the institute in Inter IIT Cultural Meet 2018 in the event of Street Play Competition | 2018