Ani Agrawal

Pre-Final Year(B.Tech) | Mechanical Engineering | Indian Institute of Technology Jodhpur
agrawal.10@iitj.ac.in | (+91)6377937159

EDUCATION

IIT JODHPUR
B.Tech in Mechanical Engineering
Expected 2022 | Jodhpur, India
CGPA: 7.52/10.00

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++ - Javascript
- HTML - CSS - Matlab

SOFTWARES
- Ansys - Solidworks - Arduino

PLATFORMS
- Windows - Linux

WORKING ON
- React - Node.js - Express.js

LINKS

LinkedIn:// **Ani Agrawal**
Portfolio:// **ani27032000**
Hackerrank:// **@aniagrawal27**
InterviewBit:// **aniagrawal**
Codechef:// **aniagrawal27**

PROJECTS

SMART IRRIGATION SYSTEM | IOT and Machine Learning
Jan 2020 - July 2020 | 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
- Analysed and compared different IOT's **AWS, Azure** and **Google Cloud**

BUS RESERVATION SYSTEM | C++
Dec 2019 - Jan 2020 | IIT Jodhpur
- Developed a full featured command line interface using salient features of **C++ language**
- Authenticated users are allowed to see available buses, vacate seats and reserve the empty seat

SAE-INDIA BAJA | 2019-2020 Edition
Feb 2019 - Jan 2020 | Guide: Dr. Sudipto Mukhopadhay 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

AUTHORIZATION APP | Full Stack web development
Oct 2020 | Self Project
- Created a minimal Full-stack authorization app using the **MERN** stack
- Integrated **Redux** for state management of React components

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 production
- Performed study and had hands-on experience over an automobile

ACHIEVEMENTS AND EXTRACURRICULAR
- **Gold level** on Hackerrank in C++(5 star)
- 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
- Ranked among the top **0.7% of 1.4 million** applicants in JEE Advance | 2018
- Member of Photography club, IIT Jodhpur | 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