



Sagar Kumar  
Chemical Engineering  
Rajiv Gandhi Institute of Petroleum Technology, Jais  
Sagar.kapsime@gmail.com  
Eche17044@rgipt.ac.in

Eche17044  
Male  
UG Fourth Year  
B.Tech  
DOB:20/12/1998  
7739716932

## OBJECTIVE

A hard working, highly enthusiastic and honest, Chemical Engineering Undergraduate student, looking to work in a position where my skills and knowledge are utilized in the best possible way, which provides me with an opportunity for growth in my professional career and also contribute to the growth of the organization.

EXAMINATION	University	Institute	Year	CPI/%
Graduation	RGPT	RGPT	2021	6.41*
Intermediate/+2	CBSE	Modern Academy, Gaya	2017	78.2%
Matriculation	CBSE	D.A.V Public School , Rotary Campus, Medical Unit, Gaya	2014	9.80

\*Upto 6<sup>th</sup> Semester

## INTERNSHIP /ACADEMIC PROJECTS

### Internship:

**Data Driven Modelling And Optimization of Industrial Reactor Project.** [Dec 2019]

Guide: Dr. Sandip Kumar Lahiri , Chemical Engineering Associate Professor , NIT Durgapur.

- The work includes finding an equation , that satisfy both input and output reaction and reactor Variables & optimize the condition for maximum output.

### Industrial Project:

**ANN Modelling and Optimization of Commercial Industrial Reactor.** [April-May 2020]

Bell Energy Services UK Limited Abu Dhabi, United Arab Emirates.

- By using input and output reactor data and MATLAB neural network, we find a best equation and optimum reactor condition.

### Research Project:

**Understanding the interactions of nano-metal particles with carbon nano-dots in solid matrix and solution phase with emphasis on energy transfer**

[August 18' - Present]

Guide: Dr. Debashis Panda, Nano-Bio Spectro Lab, RGPT

- The work includes preparation of carbon nano-dots by hydrothermal method and also preparation of thin polymeric film and their fabrication with nano-dots and metallic nano-particles.

### Technical Project:

**Green Campus Using Sensor** [Nov 17']

Guide: Science and Technical Committee, RGPT Winter School 2017

- Worked on a project that aimed to create an energy efficient lighting system for academic campus.
- The project was praised to be path-breaking and innovative by Smt. Sushma Rath (then joint Secretary Ministry of Petroleum & Natural Gas).

### **Academic Project:**

#### **Calculation of Average heat transfer coefficient in flow across circular tube [Oct 2018']**

Guide: Dr. Milan Kumar, Heat and Mass Transfer Course

- Understood in brief about conduction and calculations involved.
- Learned about the application of “Solver” and “Goal Seek” functions of Excel in solving heat transfer problems requiring iteration solution process.

#### **Prediction of HIT SONGS in the Music Industry [April 2019']**

Guide: Dr. Anirban Mukherjee, Sociology Course

- Analysed nearly 500 indian songs[2010-2018] to understand the dynamics & explore the predictability of success.
- Learned about Data Science Approach through the weighted mean method.

#### **Gas Sweetening Process Design [Oct 2019']**

Guide : Dr. Umapasana Ojha, Natural Gas Processing Course.

- Design a reactor that purify mixture of natural gas, hydrogen sulfide & carbon dioxide.

### **AWARDS AND ACHIEVEMENTS**

- Cleared JEE Mains and JEE Advanced 2017, with 90 percentile.

### **TECHNICAL SKILLS**

**Software Skill\*** : Photoshop, Origin, AutoCAD , MATLAB, MS Office

**Programming Languages\*** : C , HTML , Python

\*Basic level.

### **POSITION OF RESPONSIBILITY**

- Executive Post , **AICHE RGIPT Student Chapter [18'-19']**
- Volunteer Teacher in **ARPAN RGIPT Social Service Club**, taught students of government schools for over 60 teaching hour [17'-18']
- **Joint Secretary , Urjotsav Techfest RGIPT 2k19.**
- Mess Committee Member[19'-20']
- Mess Committee Member[18'-19']