

# Sarthak Goel

Final Year | Chemical Engineering Undergraduate  
Male

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## RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY

Jais, Amethi- 229304

[SarthakGoel-LinkedIn](#)



### OBJECTIVE

A competent, hard-working Chem-E undergrad seeking opportunities to learn and work in a challenging environment, aiming to add value to the industry through the application of my core-technical knowledge.

### EDUCATIONAL BACKGROUND

Course	Institute/School	CPI/CGPA/%	YEAR
B.Tech in Chemical Engineering	Rajiv Gandhi Institute Of Petroleum Technology	8.48/10* Up to 6 <sup>th</sup> Semester	2019-2023
XII, (CBSE)	Rani Laxmi Bai Memorial School, Lucknow	94.8%	2018
X, (CBSE)	Rani Laxmi Bai Memorial School, Lucknow	10/10	2016

### INTERNSHIP

#### CHEMICAL ENGINEERING INTERN | BUCKMAN LABORATORIES INDIA PVT. LTD.

19<sup>th</sup> May 2022 – 30<sup>th</sup> Sep 2022

- Worked in the Modelling and Simulation Team responsible for developing an End-to-End Cooling Tower Product Recommender System.
- Developed Hybrid Equation Based Models (First Principle + Statistical) for predicting the amount of dosage required by different Scale Inhibitor actives for a certain input of Water Chemistry and target Inhibition Efficiency.
- Built a 13 Parameter based Log- Multiple Linear Regression Model for predicting the Corrosion Rate in the Cooling Tower, for an input of Water Chemistry and amount of Corrosion Inhibitor actives dosed.
- Both Scale and Corrosion Models built were analysed extensively, and were found to exhibit excellent trends (in accordance with expectation) between certain physical parameters like pH vs Corrosion Rate, Inhibition Efficiency Vs Scale Dosage etc.
- Automated the entire Model Generation Process for both Scale and Corrosion Actives by developing Python Scripts which updates the Model Parameters as and when new data from real world sensors will be added.

### PROJECTS

#### Design And Control Analysis of Petlyuk Column for separating ternary organic mixture

Mentor: Dr. Vivek Kumar

(2021-Present)

- Designed the Petlyuk Column Flow-scheme in Aspen HYSYS and simulated the process conditions for the separation of ternary organic mixture of BTX (Benzene-Toluene-Xylene).
- Simulated the separation of mixture to the highest possible purity of products and optimized the reboiler duty of the column.

[\[CLICK HERE\]](#) [\[CLICK HERE\]](#)

### SKILLS

Software Skills:

Auto-Cad | MS Excel | MS Word | MS PowerPoint | Aspen HYSYS | ASPEN PLUS | MATLAB

Computer Languages: C, C++, Python

### POSITION OF RESPONSIBILITY

Joint Secretary (Internal Affairs) | AIChE RGIPT Student Chapter

2022-Present

Secretary | CodeChef RGIPT Student Chapter

2021-Present

Editorial Head | E-Cell RGIPT

2021-2022

### ACHIEVEMENTS AND HONOURS

Qualified GATE-2022 Chemical Engineering with AIR- 624 (1<sup>st</sup> attempt)

2022

Tutor of C/ MATLAB /Python course for 1<sup>st</sup> Year CS students

2022

Qualified JEE ADVANCED-2019 with AIR 13514

2019