

## **DEVVRAT KAPIL**

Final Year, RGIPT | Chemical Engineering Undergraduate

Male | 01 September 2000

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### **CAREER OBJECTIVE**

To utilize my core technical competence and act as a solution finder for individual and for organisational growth.

### **EDUCATIONAL BACKGROUND**

COURSE	INSTITUTION	YEAR	CPI/CGPA/%
B.Tech (Chemical Engineering)	Rajiv Gandhi Institute of Petroleum Technology	2019-2023	9.32*/10
Intermediate/+2	Montfort Senior Secondary School	2018	87.6%
Matriculation	Montfort Senior Secondary School	2016	10/10

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

### **INTERNSHIP**

- I3 Nanotech India Pvt. Ltd** (10 May 2022 – 02 September 2022)  
**Guide:** Manish Goel, CTO  
**Project Title:** Pressure Swing Distillation System.
  - Performed distillation column sizing.
  - Attended a training session on development of distillation process by using different types of packings, trays, distributors, etc.
  - Industrial Visit to a Pharmaceutical industry.
  - Recreated Simulation and Performed Line Sizing.
  - Trained colleagues on specific features of Company's ERP tool.
  - Modified and automated various modules on Company's ERP tool.
- Research Intern | Indian Institute of Technology (IIT) Roorkee** (03 May 2021 – 20 July 2021)  
**Guide:** Professor Ravi Sharma (Earth Science Department)  
**Project Title:** Multiphysics of fluid flow in Digital Rocks.
  - Worked on the 1-D model of realistic reservoir data.
  - Predicted the flow properties like Saturation, Fractional Flow, Oil pressure profile inside the oil well, Effect of porosity and mobility on fluid flow.
  - A breakthrough point as well as recovery factor of oil well is determined using above mentioned properties.
- Process Safety Management Intern at IChE** (May 2020 – June 2020)
  - Developed a sound understanding of all major safety measures, risk, hazard that can occur while working in the industry to prevent major incidents, Fatalities and Injuries.
  - Understood HAZOP, Material Safety Data Sheet, What IF checklist, Plant Layout Design which focuses on identifying the risk and hazards which may occur in future and helps in finding a way to prevent them.
  - Awarded 'A+' Grade for the final submitted report of the Internship.

## ACADEMIC PROJECTS

**Project Title:** Synthesis of Metal-Organic Framework (MOF) for adsorption of Hydrogen and Natural Gas. (Oct 2021 – Feb 2022)

**Guide:** Dr. M S Balathanigaimani

- The project focuses on the synthesis of suitable MOF for Hydrogen and Natural Gas Storage.
- Performed BET Analysis, SEM and XRD to determine various characteristics of our synthesized material.

## ACHIEVEMENTS, HONOURS AND EXTRA-CURRICULAR ACTIVITIES

- Qualified JEE Advance 2019 with an All India Rank of 13171.
- Qualified JEE Mains 2019 with an All India Rank of 37006.
- Participant and In-charge of basketball sports event and management of the teams participating in the event.(2019)
- Recipient of RGIPT Merit-Based Scholarship.
- Participated in the MATLAB workshop conducted in the AIChE Student Regional Conference-2020 hosted virtually by NIT, Rourkela.

## TECHNICAL SKILLS

- **Computer Languages** – C, Python.
- **Tools** – ChemCAD, Aspen Plus, SciKit Learn, Numpy, Pandas, MATLAB.
- **Online Courses** – Machine Learning course (Coursera), Convolutional Neural network (Coursera), Recurring Neural Network (Coursera).

## POSITION OF RESPONSIBILITIES

- Tutor for undergraduate first year B.Tech Students, of Fluid Mechanics. (2021-2022)
- Tutor for undergraduate first year B.Tech Students, of Organic and Hydrocarbon Chemistry. (2021-2022)
- **Teaching Mathematics** to over 30 underprivileged Students of class 12<sup>th</sup> at GyanArpan, A social initiative by RGIPT. (2021-2022)
- **Captain** of RGIPT basketball team.(2021-2022)
- **Vice President** at CodeChef RGIPT Student Chapter. (2021-2022)
- **Editorial Executive** at AIChE RGIPT Student Chapter. (2020-2021)
- **Public Relation (PR) Executive** at EAGE RGIPT Student Chapter. (2019-2020)