**SHIVANI NAIR** Chennai, India | +91-98765-78901 | shivaninair.chem@gmail.com | LinkedIn

### **Career Objective**

Motivated and detail-oriented **Chemical Engineering graduate** with a strong academic foundation in **process engineering**, **thermodynamics**, and **chemical simulation**. Seeking an entry-level opportunity in **R&D** or **quality engineering** where I can apply my knowledge to solve real-world chemical process problems.

### **Education**

**Bachelor of Engineering – Chemical Engineering** Anna University, Chennai | 2019 – 2023

* CGPA: 8.7/10
* Core Subjects: Heat & Mass Transfer, Reaction Engineering, Process Control

### **Internship Experience**

**Process Engineering Intern** **Indian Oil Corporation (IOCL) | Chennai | Jan 2023 – Mar 2023**

* Assisted senior engineers in process flowchart documentation
* Simulated reactor performance using **Aspen Plus**
* Learned safety protocols and batch operation principles

### **Skills**

* **Simulation Tools**: Aspen Plus, MATLAB (basic)
* **Core Concepts**: Mass/Energy Balance, Heat Exchangers, Fluid Mechanics
* **R&D Skills**: Lab Reports, Data Interpretation, Process Design
* **Soft Skills**: Problem Solving, Critical Thinking, Teamwork

### **Certifications**

* Chemical Process Simulation – NPTEL
* Industrial Safety & Hazard Management – FutureLearn
* MATLAB Basics for Engineers – MathWorks

### **Academic Projects**

**Waste-to-Energy Conversion Reactor**

* Designed and simulated a small-scale gasification system for plastic waste
* Project presented at ChemTech Expo 2023

### **Achievements**

* Top 5% in National Chemical Engineering Quiz (IIChE)
* College-level winner in “Green Innovation Challenge”

### **Languages**

English, Tamil, Hindi