

Roger Peter Menezes

B.Tech. | NIT Rourkela

Final Year , Chemical Engg.

DOB: 12 October 2003

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Education

2021-2025

B.TECH., CHE

NIT Rourkela

CGPA : 8.02/10

MAY 2021

12TH CBSE

Lexicon International School ,

Pune , Maharashtra

Percentage: 94.2%

MAY 2019

10TH CBSE

Lexicon International School ,

Pune , Maharashtra

Percentage: 94.8%

Links

LinkedIn:// **Roger Menezes**

Skills

GENERAL PROGRAMMING

C,C++,Python,R,Java

SOFTWARES

MS Excel,MATLAB,ASPEN

LANGUAGES

English, Hindi, Marathi, Gujarati

Relevant Courses

DBMS

OOPS

Data Structure

Algorithms

Work Experience

MAY-JUNE 24 **Thermax Limited**

- Involved in analyzing and fine-tuning various aspects of the treatment process, from initial intake to final discharge.
- Conducted precise analytical tests to determine key water quality parameters, including Chemical Oxygen Demand and Total Suspended Solids.

MAY-JUNE 23 **Zydus Lifesciences**

- Studied the full drug development process, from discovery to market approval, typically spanning 12-15 years.
- Methods and challenges faced during API Development and Scaling Up Laboratory Processes.
- Reviewed and selected equipment for API manufacturing, optimizing processes for batch sizes of 100-1,000 kg.

Projects

JUNE 2024 **Inventory Project Demand Forecasting using ML**

- Developed a machine learning model to predict future inventory demand, reducing stockouts and overstock situations for retail stores.
- Preprocessed time-series data for 1,000+ SKUs, handling missing values and creating lag features to enhance predictive accuracy.
- Visualized sales trends and model predictions using Matplotlib, creating clear insights for stakeholders.

MAY-JUN 24 **Process Optimizations on an Effluent Treatment Plant**

- Optimized ETP performance by adjusting chemical dosing and integrating AOP, reducing COD levels by 95 %
- Troubleshooted pilot ETP issues, cutting chemical overdosing by 10%.

JUNE 2023 **Solvent Recovery For Methanol-Water System**

- Developed a solvent recovery process for a 5000-liter batch of Mother Liquor containing 95% Methanol and 5% Water, achieving an efficient separation and maximizing resource utilization.
- Designed a distillation column with a reflux ratio of 0.5, targeting a 99.7% pure methanol.

Extra Curricular Activities

2022-Now **Rotaract**

- Dedicated to community welfare through clothing donations and actively engaged in organizing and leading impactful community service projects, ensuring meaningful contributions to those in need.