



Swapnil Raghunath Kavitkar

M. Tech (Chemical Engineering)-
NIT Warangal

Bangalore, India

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Skills

Matlab

Aspen Plus

Python

Machine Learning

Ansys CFD

Languages

English

Hindi

Marathi

Profile

I'm an enthusiastic and passionately driven chemical engineer with a good knowledge of simulation software like Aspen, MATLAB, Ansys CFD with a touch of Artificial Intelligence & Machine Learning approaches. I am currently looking for an opportunity where I can utilize my skills and acquired knowledge for the betterment and continuous growth of the organization.

Employment

Senior Executive, Biocon Biologics, Bangalore

August 2022 – Present

Manufacturing Insulin Downstream

Education

M. Tech Chemical Engineering, National Institute of Technology Warangal

September 2020 – June 2022

CGPA 7.79

B. E. Chemical Engineering, Gharda Institute of Technology, Lavel, Khed

July 2015 – June 2019

CGPA. 8.04

Projects

M. Tech Project - Multi-objective optimization of reactive distillation and reactive distillation dividing wall column - AI/ML approach, NIT, Warangal

July 2021 – June 2022

In this work artificial neural network (AI/ML) incorporated with genetic algorithm has been used to find out optimal values of operating parameters by maximizing purity and minimizing total annual cost of reactive distillation and reactive dividing wall column. Modeling and simulation has been done using ASPEN and further methodology integrated with Machine Learning using MATLAB & Python.

B. E. Project - Removal of color from industrial effluent using boiler's fly-ash

July 2018 – April 2019

Designed & developed a prototype resulting in a breakthrough study of purification of industrial effluent by varying flow rate and bed height in an adsorption column employing fly-ash.

Internships

Research intern, Indian Institute of Technology Bombay, Mumbai

June 2018 – July 2018

Research on chemical reclamation technique of waste foundry sand and determined property of sand before and after reclamation.

Inplant Trainee, Rashtriya Chemicals and Fertilizers Ltd., Alibag

December 2018

Inplant training in Ammonia production plant

Achievements

Outstanding Young Chemical Engineer 2019

March 2019

An award from Indian Institute of Chemical Engineers (IIChE)

Secured first prize in Oral presentation SCHEMON 2018

National level event by IIChE

Secured first prize in Poster presentation PRAKALP 2018

National level event by IIChE

Strengths

1. Ideation
2. Maximizer
3. Positivity
4. Learner
5. Relator

Validated by Gallup StrengthsFinder

References

Prof. S. Srinath, (HOD, Chemical engg.) from National Institute of Technology, Warangal

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