

Aovi Deshpande

4th year Undergraduate in Chemical Engineering

+91 8830167207

aovideshpande@gmail.com

in /aovi-deshpande

Education

Shivajirao S. Jondhale College of Engineering

B.Tech, Department of Chemical Engineering

CGPA – **9.01/10**

2017 – 2021
Mumbai, India

Pandit Bachraj Vyas Vidyalaya

Higher Secondary, Maharashtra State Board

Score – **76/100**

2015 – 2017
Nagpur, India

Chanda Devi Saraf High School

Secondary School, Indian Certificate of Secondary Education

Score – **92/100**

2004 – 2015
Nagpur, India

Internship

Adya Group

Summer 2020

- > Process Simulation Intern
- > learned comprehensively about DWSIM and performed simulation on unit operations and process
- > Generated a report on software uses and limitations along with one practical project.

Rashtriya Chemical Factory

Winter 2019

- > vocational trainee at ammonia plant
- > overview of urea, argon, heavy water, carbonmonoxide, steam generation plants
- > vocational trainee at ammonia plant

Vijay Gas Industries

Winter 2019

- > Worked as an intern in Ammonia and Nitric Acid manufacturing plant
- > Performed detailed analysis on various unit operations and their practical applications
- > Generated a comprehensive report on the working of the plan.

Projects

Process Simulation

Summer 2020

- > Created a start to end process simulation of a three component azeotrope system
- > The process had nitric acid, HCl and water system which was seperated by a dual pressure swing distillation column
- > Cost analysis along with debottlenecking and process optimization for the system was also carried out

Data Analysis

Summer 2020

- > Learned about predictive modelling and basics of machine learning.

- › Applied predictive modelling and statistical methods to analyse data of an Insurance company and finding out the probability of failure of payment based on past records.
- › Learned about predictive modelling and basics of machine learning.

Heat Exchanger

Autumn 2019

- › Developed a working model of variable temperature outlet heat exchanger from scratch.
- › The model was awarded 1st prize in TSEC under IICHE (Indian Institute of Chemical Engineers).
- › The project received praises for it's temperature adjustability and simple scalability.

Steam Trap Health Monitor

Winter 2017

- › Developed a Steam Trap Health Monitor which works by classifying vibration patterns.
- › Lead the team of six throughout the whole development operation.
- › The model reached the semi finals in Smart India Hackathon 2019 (Hardware Edition).

Smart Bin

Spring 2018

- › Implemented a SMART bin on Arduino UNO microcontroller platform.
- › Used ultrasonic sensor interfaces to give automatic functioning and moving abilities.
- › Added support for automated notifications about bin status through use of a GSM module.

Achievements / Activities

- Qualified for Eyantra 2018 stage 2 held by CSE department of IITB among 200 participating colleges
- Presented a poster on treatment of "Recycling of non-recyclable plastics" at Thadomal sahani college for Techfest held under IICHE (Indian Institute of Chemical Engineers)
- Presented a review paper design of horizontal distillation column at ICT Mumbai for OYCE Competition.
- Attended an industry-academy programme at DAE Convention BARC (Bhabha Atomic Research Centre).
- Ranked 1st in stage 1 of Chemophilia organized by Azeotropy, IIT Bombay
- Awarded 1st prize for poster presentation on Science day.
- Participated in essay, quiz and debate competition held by office of Deputy Commissioner of central GST
- Team Leader in IICDC (Indian Innovation Challenge Design Contest) for development of SMART Helmet.

Positions of Responsibility

Department Co. Technical Head

Sept 2019 - Present

- › Managed social media strategy, branding and street teams to ensure event attendance
- › Preparing event reports and guiding all event managers regarding event organization

Skills

Technical MS-office, AutoCAD, Scilib, Basic Python, DWSIM

Soft Leadership, Communication Skills, Decision making, Social Skills, Time Management

Hobbies Playing Piano, Listening Music, Online surfing, Shopping, Trekking

Talents Stand-up comedy, Negotiation, Event anchoring