

# Aovi Deshpande

4th year Undergraduate in Chemical Engineering

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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).

## 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, Python, DWSIM, Aspen Hysys,

**Soft** Leadership, Communication, Decision Making, Social Skills, Time Management,

**Hobbies** Playing Piano, Listening Music, Online Surfing, Shopping, Trekking, Reading Books,

**Talents** Stand-up Comedy, Negotiation, Event Anchoring, Bargaining, Fancy Dress Competition,