

Aovi Deshpande

◇ [Website](#) ◇ [Email](#)

EDUCATION

Shivajirao S. Jondhale College of Engineering

2017-2021

- B.Tech, Department of Chemical Engineering, *CGPA: 9.01/10*

Pandit Bachraj Vyas Vidyalaya

2015-2017

- Higher Secondary, Maharashtra State Board, *Score: 76/100*

Chanda Devi Saraf High School

2004-2015

- Secondary School, Indian Certificate of Secondary Education, *Score: 92/100*

INTERNSHIP EXPERIENCE

Adya Group

Summer 2020

Guide: [Mr. Indraneel Chatterji](#)

[Adya, Mumbai](#)

- 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

Guide: [Mr. Vivek Newalkar](#)

[RCF, Alibagh](#)

- 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

Guide: [Mr. Deepak Sawant](#)

[VGI, Ambernath](#)

- 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 plant.

KEY TECHNICAL PROJECTS

Process Simulation for Azeotropic Systems — *Process Engineering, Cost Analysis* Summer 2020

Guide: [Prof. John Doe](#) [\[REPORT\]](#)

[Mumbai](#)

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

Data Analysis — *Process Engineering, Cost Analysis*

Summer 2020

Guide: [Prof. John Doe](#) [\[REPORT\]](#)

[Mumbai](#)

- 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.

Cost-Effective Heat Exchanger — *Process Equipment Design*

Autumn 2019

Guide: [Prof. John Doe](#) [\[REPORT\]](#)

[Mumbai](#)

- 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 its temperature adjustability and simple scalability.

Steam Trap Health Monitoring. — *Process Equipment Design*

Winter 2017

Guide: [Prof. John Doe](#) [\[REPORT\]](#)

[Mumbai](#)

- Developed a Steam Trap Health Monitor device 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

- Qualified for Eyantra 2018 stage 2 held by CSE department of IITB among 200 participating colleges (2019)
- Ranked 1st in stage 1 of Chemophilia organized by Azeotropy, IIT Bombay (2019)
- 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) (2019)
- Presented a review paper on design of horizontal distillation column at ICT Mumbai (2019)
- Attended an industry-academy programme at DAE Convention, Bhabha Atomic Research Centre. (2018)
- Awarded 1st prize for poster presentation on Science day. (2018)
- Led a team of 4 for Indian Innovation Challenge Design Contest in developing a SMART Helmet. (2018)
- Participated in essay, quiz and debate competition held by office of Deputy Commissioner (2017)

SKILLS

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

POSITION OF RESPONSIBILITY

Department Co. Technical Head

Sept 2019 - Present

- Managed social media strategy, branding and street teams to ensure event attendance
- Conducted a three level technical quiz and held a debate competition.
- Prepared event reports and guided event managers.

Ambassador relation officer

Sept 2020 - Present

- Helping out with the student outreach program of the chemtech foundation (One of India’s leading Industry association).
- Managing and coordinating with the campus ambassador for annual series of international exhibitions and conferences.
- Motivating students for maximum participation and keep the record of the same.

Student Mentor

Sept 2019 - Present

- Served as a peer mentor for 8 students in guiding their academics and college life.
- Counseled students individually and in group sessions to build personal and academic motivation.
- Guided them in thei research-oriented work.

Magazine Editor

May 2020 - Aug 2020

- Worked on the annual Chemical Department magazine at college level.
- Did extensive research on content along with graphic editing for magazine.
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CERTIFICATES

- NPTEL course on natural gas Engineering (IIT Guhuwati)
- Course on heatlh and chemicals(john hopkins uinversity)
- Course on Data analysis (Intershala)
- Webinar on Zero LIiquid waste discharge
- Quiz on Industrial safety by TKIET
- Webinar on Design of shell and tube heat exchanger.