

Aovi Deshpande

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EDUCATION

- Shivajirao S. Jondhale College of Engineering** 2017-2021
• B.Tech, Department of Chemical Engineering, *CGPA: 9.06/10*
- 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
• Got familiarized with Digital Control Systems and their effects on pneumatic valves
- 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** Summer 2020
Process Engineering, Cost Analysis [Mumbai](#)
• Created a start to end process simulation of a three component azeotropic 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** Summer 2020
Predictive Modelling [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
- Cost-Effective Heat Exchanger** Autumn 2019
Process Equipment Design [Mumbai](#)
• Developed a working model of variable temperature outlet shell and tube 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.** Winter 2017
Process Equipment Design [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).

POSITION OF RESPONSIBILITY ---

Department Co. Technical Head

Sept 2019 - Jan 2020

- 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 Chemtech Foundation (India's leading Industry association)
- Coordinating with the campus ambassador for annual series of international exhibitions and conferences
- Motivating students for maximum participation and keeping 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 their 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
- Coordinating with the faculty and preparing the content accordingly

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)

CERTIFICATES ---

- NPTEL course on Natural Gas Engineering (2019)
IIT Guhuwati
- Course on Health and Chemicals (2020)
John Hopkins University
- Course on Data analysis (2020)
Internshala
- Webinar on Zero Liquid Waste Discharge (2020)
Bhartiya Vidhyapeeth
- Quiz on Industrial Safety (2020)
Tatya Saheb Kore Institute of Engineering and Technology

SKILLS ---

Technical
Soft
Hobbies
Talents

MS-Excel, AutoCAD, Scilib, Python, DWSIM, Basic Aspen Hysys,
Leadership, Communication, Decision Making, Social Skills, Time Management,
Playing Piano, Listening Music, Online Surfing, Shopping, Trekking, Reading Books,
Stand-up Comedy, Negotiation, Event Anchoring,