



KAUSTUBH SUDHIR DESAI

Course : **B.E. (Hons.)**, Chemical Engineering, 2021

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CGPA : **8.36**



ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
UG	Chemical Engineering	Birla Institute of Technology and Science Pilani	Birla Institute of Technology and Science Pilani	8.36 CGPA	2022
CLASS XII	PCM, Electrical Maintenance	Bhavani Shankar Junior College of Science, Dadar	Maharashtra State Board of Secondary & Higher Secondary Education, Pune	88.62 %	2018

Subjects / Electives	Computational Fluid Dynamics, Business Communication, ML and Deep Learning, Principle of Economics
Technical Proficiency	Adobe Illustrator, Animation, Adobe Premiere Pro, Adobe Photoshop, C++ Language, Web Development

SUMMER INTERNSHIP / WORK EXPERIENCE

Project Assistant, Indian Institute of Science (IISc), Bangalore	Dec 2021 - Jun 2022
<ul style="list-style-type: none">Working on Droplet Rheology in High Shear Rotor MixersResponsible for carrying out the experiments in Microfluidics and corresponding simulations using COMSOL Multiphysics	
Subject Matter Expert, EduFeat	Mar 2020 - May 2020
<ul style="list-style-type: none">Was appointed as a Subject Matter Expert in Chemical Engineering.Worked on creating content and doubt solving sessions of chemical subjects.	

PROJECTS

Visualizaing Multiphase Fluid Flow in PTL of PEM Electrolyser - Energy, Microfluidics	Jan 2021 - Jun 2022
Studying various parameters for increasing the efficiency of the electrolyzer as the bubble formation due to gas flow resists the water flow.	
<ul style="list-style-type: none">Fabrication of PDMS micromodel of Anode porous transport layer (PTL) PEM water electrolyzer using different methods.Simulation of the multiphase fluid flow in two different scales - macroscale and mesoscale using ANSYS and LBM respectively.	

POSITION OF RESPONSIBILITY

Director Of International Services - Rotaract Club of BITS Pilani	Jun 2020 - Jul 2021
<ul style="list-style-type: none">One of the founding members of the club on our campus. Learned how to plan an event and guide the team members.Organized various activities such as talks, fund-raising campaigns through collaborations with different organizations all over India and parent Rotary clubs.	

VOLUNTEER EXPERIENCE

Birla Institute of Technology and Science - Model United Nations (BITS-MUN) - Role: Core Committee Member Cause: Civil Rights and Social Action	Jan 2020 - Present
<ul style="list-style-type: none">Handled the logistics of the event of BITSMUN-20Students from various states came for the event in January 15-17,20	
Entrepreneurship Cell (Launchpad 2020) - Role: Relations Manager Cause: Economic Empowerment	Jan 2020 - Feb 2020
<ul style="list-style-type: none">Publicizing the event, inviting students from different colleges to attend the event and gaining internships from various startups.Inviting startups for providing internships to students.	
Placement Unit - Role: Volunteer Cause: Human Rights	Jul 2019 - May 2020
<ul style="list-style-type: none">Gained skills such as Time management and Organizing work efficiently.Handed the Logistics of the Placement and Summer Internship Processes.	

CONFERENCES AND WORKSHOPS

National Mathematical Modelling Symposium 2021
Organized by: PDP, Gujarat and BITS Pilani Pilani campus Date: Feb 2021
<ul style="list-style-type: none">Modeled a Zombie Outbreak scenario using MATLAB.Our team secured 5th rank in the finals.