

# Yash Gokhale

[yashgokhale.github.io](https://yashgokhale.github.io)

yashgokhale@gmail.com | (412)-3205987 | [linkedin.com/in/yashgokhale](https://www.linkedin.com/in/yashgokhale)

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EDUCATION	<b>Carnegie Mellon University</b>	Pittsburgh, PA
	Master of Science in Chemical Engineering, 3.88/4.0	Dec 2020
	Relevant Coursework: Energy Storage System Design, Chemical Reactive Systems, Energy Policy & Economics, Transport Phenomenon, Process Systems Modeling, Product Optimization	
	<b>Institute of Chemical Technology</b>	Mumbai, India
	Bachelor in Chemical Engineering, 8.23/10.0	Jun 2019
	Relevant Coursework: Chemical Project Economics, Process Development, Plant Utilities, Design of Experiments, Process Safety, Industrial Management, Environmental Engineering	
SKILLS	<b>Programming:</b> Python, MATLAB, C, SQL, R, VBA Macros	
	<b>Software:</b> COMSOL, ASPEN Process Modeling, ASPEN Hysys, Solidworks, GAMS, MS Office	
RELEVANT PROJECTS	<b>Integrating EV batteries into microgrid to replace peaker plants</b>	Jun 2020-Present
	<ul style="list-style-type: none"><li>Developing a feasibility plan for design of stationary energy storage systems to address peak demand using renewable energy sources</li><li>Modeling the requirement of second-use EV batteries using data fitting and life-cycle analysis</li><li>Devising an optimization model to predict EV battery cost to mimic power plant behavior</li></ul>	
	<b>Studying impact of COVID-19 on clean energy investments and policies</b>	Jun 2020-Present
	CMU COVID-19 Environmental Impact Project Team	
	<ul style="list-style-type: none"><li>Performing benefit-cost analysis to generate avenues for clean energy funding</li><li>Identifying opportunities to facilitate investments through review of current energy policies</li></ul>	
	<b>Process Design and Budgeting for manufacture of functional wheat bread</b>	Aug 2018-Dec 2019
	<ul style="list-style-type: none"><li>Designed process equipment for raw material processing to process 1500kg/day of product</li><li>Led the economic analysis of the team to budget the plant costs at 59% breakeven capacity</li><li>Established site selection methodology for greenfield manufacturing plant based on geographical location and market dynamics</li></ul>	
	<b>Rosefield Energy Tech</b>	Mumbai, India
	Strategy Intern	May 2019-Aug 2019
	<ul style="list-style-type: none"><li>Analyzed global trends in electric vehicle investments through cost-benefit analysis</li><li>Chalked out outreach strategies for promotion of electric vehicles through brainstorming sessions with the start-up team</li><li>Engineered supply chain network models for renewable energy markets</li></ul>	
EXPERIENCE	<b>Jacobs Engineering Group Inc.</b>	Mumbai, India
	Process Engineering Intern	May-Aug 2018
	<ul style="list-style-type: none"><li>Collaborated with the consultancy team to analyze the P&amp;IDs for process accuracy and led the procurement of query list for optimum process equipment design</li><li>Optimized the performance of two-phase separators using statistical gradient optimization techniques and data fitting</li><li>Conducted EHS risk assessment to ensure compliance with safety standards</li><li>Simulated the working of pumps and heat exchangers using ASPEN Hysys</li></ul>	
	<b>Tide Water Oil. Co.</b>	Mumbai, India
	Lubricant Plant Intern	May-June 2017
	<ul style="list-style-type: none"><li>Monitored the process equipment conditions and standard operating procedures for the lubricant manufacturing plant</li><li>Analyzed the working of lubricant waste disposal system following written directives</li></ul>	