

Yash Gokhale

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EDUCATION	Carnegie Mellon University (CMU)	Pittsburgh, PA
	Master of Science in Chemical Engineering, 3.88/4.0 Relevant Coursework: Data Science for Technology, Machine Learning, Energy Storage Systems, Process Modeling, Energy Policy & Economics, Energy Generation and Supply	Dec 2020
	Institute of Chemical Technology	Mumbai, India
	Bachelor in Chemical Engineering, 8.23/10.0 Relevant Coursework: Energy Engineering, Environmental Engineering, Chemical Project Economics, Process Development, Process Control, Industrial Management	Jun 2019
SKILLS	Technical: <i>Proficient:</i> Python, R, SQL; <i>Intermediate:</i> Git, MATLAB; <i>Basic:</i> HTML, C Software: Tableau, Apache Spark, Power Bi, GAMS, Hadoop, Minitab, ArcGIS Databases: PostgreSQL, MySQL, MSSQL Packages: <i>Python:</i> pandas, scikit-learn, tensorflow, pyomo; <i>R:</i> ggplot2, tidyr, dplyr, modelr	
PROJECTS	Big Data Analysis of radar data for climate modeling	Pittsburgh, PA
	Master's Project The Gordon Group, CMU	Dec 2019-Present
	<ul style="list-style-type: none">Devised a Python framework from scratch for spatial-temporal clustering and data aggregation using grid-box methodology for required resolutionDeveloping a time-series model of the clustered radar data to forecast the cloud droplet concentration as an independent parameterAssessing the operability of multiple classification algorithms such as Random Forest, KNN and SVMs to segregate hydrometeor types based on atmospheric features	
	Integrating EV batteries into microgrid to replace peaker plants	Jun 2020-Present
EXPERIENCE	<ul style="list-style-type: none">Developing a techno-economic feasibility study plan to design stationary energy storage systems with second use EV batteries to address peak demandModeling requirement of second-use EV batteries using data fitting and life-cycle analysisDevising an optimization model to predict battery degradation to mimic power plant behavior	
	Global Optimization of Gas Lifting Operations	Jan 2020-May 2020
	<ul style="list-style-type: none">Maximized oil production of 200 oil wells with 98% average accuracy using MILP solver in GAMSOptimized gas requirement curves using piecewise linear functions with supply constraints	
	Rosefield Energy Tech	Mumbai, India
	Strategy Intern	May 2019-Aug 2019
	<ul style="list-style-type: none">Analyzed global trends in electric vehicle investments through cost-benefit analysisDeveloped statistical models to estimate the EV demand using forecasting techniquesEngineered supply chain network models for renewable energy markets	
	Jacobs Engineering Group Inc.	Mumbai, India
	Consultancy Intern	May 2018-Aug 2018
CO-CURRICULARS	<ul style="list-style-type: none">Collaborated with the consultancy team to analyze the P&IDs for process accuracy and led the procurement of query list for optimum process equipment designDeveloped a Prototype Simulator to estimate cooling water make-up requirement in VBA Macros to lower water loss by 2%	
	Data Analysis Lead, CMU Covid-19 Environmental Impact Team 2020	
	Led the data analysis to create an interface to visualize real-time carbon emissions in USA	
	Summer Research Assistant, Heinz College of Information Systems	Jun 2020-Aug 2020
	Analyzed the effect of user's browsing history on advertisements displayed in future browsing	