

Pradyum Soni B.Tech – Chemical Engineering Graduation Year: 2021

Email ID: pradyummathriya@gmail.com Contact Number: +91-7976022298 Linkedin: linkedin.com/in/pradyumsoni/

[Jul'18 - Jun'19]

Indian Institute of Technology, Bombay Personal Website: pradyumsoni.com

PROFESSIONAL EXPERIENCE

MACHINE LEARNING	INTERN Nuclei Technologies Awarded LOR [28 Jul'20 – 28	3 Sep'20]
MENTORING	• Allotted 40 mentees for 2 projects, Improved Best Kaggle ranks of mentees to 1.5k	
CONTENT	 Delivered 20 topic's content for LIVE project; ML & Statistics course development 	
PROJECTS COM	PLETED	
STATE ESTIMATION	PROJECT Prof. Mani Bhushan Python_3 Github Link [Aug'20 -	Dec'20]
PURPOSE	Simulate Williams Otto Reactor (3 simul reactions) & Estimate Unmeasured States	
METHODS	Kalman filter; EKF; Euler Integration; Perturbation of Inputs & Gaussian Noise	
EVALUATION	Plots: States, Spectral Radii, Innovation, Estimation error; Values: RMSE; NEES	
DESIGN PROJECT Et	chylene Oxide Prof. RKM & JB DWSIM (5 members) <u>Drive Link</u> [Jan'21 -	- Apr'21]
PURPOSE	RnD on ETO plant setup; Present end-to-end solution w.r.t plant development	
METHODS	Market Survey, Read Patents, Develop PFD, Material Balances, DWSIM Simulation	
EVALUATION	Weekly Evaluation for 8-9 weeks by 2 professors including Report & Presentation	
SELF PROJECTS Kag	ggle Projects Prototype Web App (Insurance Cost Web App: <u>Link</u>) [Mar'20 -	- Aug'20
Insurance Cost		
Call Drop Category	No Github Solution available; Predicted Call Drop Category: Multi-Label Classification	
COURSE PROJECTS	Report-Based Course Projects [Apr'21 -	- Aug'21]
Micro-Tweezers	Prof . Rohit; Novel approach, Fabrication, Mask Layout, Design, Packaging & Testing	
Chemical Process	Prof . Jogwar; Performed Detailed level 5 design on Styrene Manufacturing	

Positions of Responsibility

	CAPTAIN CULTURAL MEET 4.0 [Nov '19 - Dec '19]				
Represented IIT Bombay for 5 competitions under dramatics genre & Improv comedy among 21+ IITs participating					
	ROLE	• Responsible to build 5 teams ; Supervise production requirements using budget of 0.1Mn			
	IMPACT	• First position in Improv. Overall First-Runner IIn as part of 15+ team leading 200 students			

IMPACT • **First** position in Improv; **Overall First-Runner Up** as part of 15+ team, leading 200 students

Part of **25+** membered H9 council; Part of **15+** membered team in SARC • Drafted **HATS** report, hostel wish list targeting an approximate budget of **0.3Mn ROLE** • Organized Silver Jubilee Reunion; Conducted H9 Alumni visit for flagship event: Alumination • Air-Conditioned **Study Room Project** was started for H9 students with appropriate budget **IMPACT**

HOSTEL ALUMNI SECRETARY | HOSTEL 9 | STUDENT ALUMNI RELATIONS CELL

EXTRACURRICULARS

TECHNICAL SKILLS	• C++; Python3; MS Office; MATLAB; DWSIM
ONLINE COURSES	 Certified Python Data Science Professional – IBM (4 courses & Project)
ONLINE COURSES	• Fundamentals of Statistics – MITx; Using python for Research - Harvardx
	 Hostel Special Mention'19 & Hostel Cultural Color'20 in Culturals
AWARDS	 Bagged 5th position in SPGC; Directed the 10+ team for 60+ hours
	• Performed in PAF'19, '20; First in MDGC'19; Written & Directed MDGC'20
NOVELS & FOUNTAIN PEN	• ("King-killer Chronicles") – RothFuss ; ("Stormlight Archive") – Sanderson
NOVELS & FOUNTAIN PEN	• Fountain pen afficionado – Regalia writing labs, Nakaya Lacquer, MB 149