Rohan Kumar

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EDUCATION

Indian Institute of Technology (IIT) Bombay

Bachelor of Technology, Chemical Engineering (With Honors): 8.17/10.0

Recipient, Chemical Engineering Department Citation (3/124 students)

Placed with MasterCard Advisors

Delhi Public School Haridwar

['14]

['18]

Intermediate: 96%, Matriculation: 10.0/10.0

Internships

Unilever, United Kingdom

[May'17 - Jul'17]

Demand Planning, Supply Chain Management | Unilever Leadership Internship Programme

- Project 1: Automating demand volume forecast for products on promotions
- · Analysed demand history for 2500+ promotions across 12 categories to identify customer and product specific trends
- \cdot Delivered 300 bps accuracy improvement with 50% reduction in bottom-up forecast work-hours for 30 employees
- Project 2: Realigning product hierarchy trees
 - · Developed end-to-end Excel tool to **realign** product hierarchies by improving correlation scores of forecast groups
 - · Suggested new method delivering 40% decrease in coefficient of variance of forecast groups to increase accuracy

Purdue University, USA

[May'16 - Jul'16]

Personalised Medicine | Guide: Prof. Doraiswami Ramkrishna

- Project 1: Enhancing anti-cancer drug efficiency
 - · Utilised machine learning to develop methodology for identifying optimal dosage size with no side effects
- · Implemented decision trees and regression to identify top 30 biomarkers responsible for side effects from set of 512
- Project 2: Modelling response of cancer cells to drug attack
 - · Developed pharamcodynamic model investigating response of cancer cells to drug attack in all stages of cell cycle
- · Optmised dose size and timing by identifying oscillations and modelling peaks as timing of next dosage

PROJECTS

Microsoft code.fun.do | Awarded Pre-Placement Interview at Microsoft

[May'15 - Jul'15]

- ullet Awarded among ullet ullet from 53 teams across ullet colleges in India; featured in article on Microsoft India News Center
- Developed Universal Windows App to simulate a dynamic food web with real time interactions for user controls

Game Engine | Institute Technical Summer Project

[Mav'15 - Jul'15]

- Programmed a game engine in Python, implemented team strategy, player positions and responsibilities
- Applied object oriented design patterns (decorator, builder, observer, strategy) for dynamic function allocation

Analysis of Burger's Equations | Course Project

[Oct'15 - Nov'15]

- Solved Burgers Equation using Crank-Nicolson, Lax-Friedrichs, explicit and implicit methods
- Analysed applications of Burgers Equation to model traffic flow conditioned on fluid mechanics

LEADERSHIP ROLES

Overall Coordinator, AZeotropy 2018

India's largest intercollegiate Chemical Engineering Symposium

ROLE	• Single-handedly led 3-tier team of 80+ members executing 50+ events catering to 5000+ students
	• Spearheaded operations, end-to-end logistics, budget allocation and tie-ups with chemical industries
IMPACT	• Awarded Department Citation , highest honor for organisation excellence at department level
	• 38% y-o-y increase in national centers for elimination competitions; 20% increase in participation
	• Generated international research collaboration and student exchange opportunities for the department

Marketing Head, AZeotropy 2017

[Apr'16 - Mar'17]

Part of 3-tier team of 15 core members and 80+ volunteers in charge of execution of symposium

- Achieved 18% y-o-y increase and highest budget in 11 years; personally delivered 62% of monetary sponsorship
- Partnered with Mersen Ltd. to conduct Chem-O-Philia guiz for 1200 students across 18 centres (50% y-o-y increase)

ACHIEVEMENTS

ACADEMIC	• Selected for the KVPY Fellowship (Kishore Vaigyanik Protsahan Yojana)	['13]
	• Awarded the prestigious NTSE Scholarship (National Talent Search Examination)	['10]
	• Skills: C++,C#, Python, R, MATLAB, Java, Mathematica, IATEX, Git	
TECHNICAL	• Convener, Web & Coding Club: conducted open-source and web development workshops	['15-'16]
	• Attended National University of Singapore computing camp for int'l high school stude	ents ['10]