

# SHANTNU PATIL

B.Tech. Chemical Engineering  
UG(IV Year I Semester)  
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Registration No: B.Tech./CH/15112089/2019

Indian Institute of  
Technology  
Roorkee



## Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2018	B.Tech. 3rd Year	Indian Institute of Technology Roorkee	7.872
2015	Twelfth	Kendriya Vidyalaya IIT Powai (CBSE), Mumbai	96.8 %
2013	Tenth	Kendriya Vidyalaya IIT Powai (CBSE), Mumbai	10.0

## Internships

### Summer Trainee | BP - Castrol

10th May 2018 - 10th July 2018

- Assigned two projects, one on Bar Code system feasibility and other on Viscosity Prediction tool for FTPR
- Conceptualized a work-flow with bar-code system for raw material tracking with the help of stakeholder interactions
- Performed a feasibility study and cost-benefit analysis on this work-flow with the help of vendor interaction
- Worked on database development of incoming raw material properties for predicting viscosity of final blends
- Exercised various regressions and statistical analyses on R grade-wise with real-time testing of these models
- Coded these models on MS-Excel to make it user friendly and achieved a 97% FTPR for the month of June 2018

### Summer Trainee | Ernst & Young

1st June 2017 - 13th July 2017

- Prepared a skill gap report on the food processing industry with a special emphasis on workers of NSQF level 2 to 4
- Consulted various HR professionals in the food industry and ascertained the recruiting and training problems
- Computed qualitative and quantitative skill gaps in the industry for the next 5 years in the aforementioned skill levels
- Enlisted reasons for skill gaps along with various recommendations to curtail the skill gaps

### Marketing Management | Indian Institute of Management Lucknow

15th Dec 2016 - 15th Jan 2017

- Analyzed the major concepts of marketing of big MNCs like Procter and Gamble, McDonald's etc.
- In-depth study of brand positioning and its implementation in the marketing strategy of Nespresso
- Formulated marketing plans for an app using concepts of marketing management inspired by the above literature study

## Projects

### Production of DMC using a membrane reactor | IIT Roorkee

Jan 2018 - July 2018

- Engaged in a comprehensive literature study of Dimethyl Carbonate's (DMC) physical, chemical properties and its uses
- Worked on the feasibility of using a membrane reactor for producing DMC along with its pros and cons
- Modeled this membrane reactor on ASPEN and compared conversion efficiencies of series of such reactors
- Performed various simulations using ASPEN and tabulated the efficiencies obtained for various series of reactors

## Awards / Scholarships / Academic Achievements

- Secured runners-up position in Inter-Bhawan Football Tournament
- Selected for Asia Investment Banking Conference, Hong Kong
- KPMG certified Lean Six Sigma Yellow Belt
- Selected for The Global Millennium Summit organized by SRCC in Marriott, Dubai
- Received congratulatory letter from former HRD Minister Smt Smriti Irani for class 12 board performance
- Offered KVPY Fellowship Award 2014, KVPY Scholar for IISc Bangalore
- Achieved a state (Maharashtra and Goa) rank 7 in National Science Olympiad 2014
- Cleared Grade 2 Plectrum Guitar with merit of Trinity College London

## Skills

Computer languages	C++, R, Python
Software Packages	MS Office( Word, Excel, Powerpoint), Dev C++, RGui(64 bit), ASPEN
Additional Courses Taken	Economics, Analytics Edge MITx-15.071x, Python for Finance : Investment fundamentals and Data Analytics, Engineering Mathematics
Languages Known	English (SRW) , Hindi (SRW) , Marathi (SO)

## Positions of Responsibility & Extra Curriculars

### Secretary - Squash

July 2018 - Ongoing

- Captain of IIT Roorkee Squash Team
- Selected for Inter IIT Sports Meet 2018
- Secured runners-up position in Inter Bhawan Squash Tournament 2018
- Organized Institute Squash Open, Institute Colours Trophy and 13th Uttarakhand State Squash Championship
- Conducted selection trails for NSO-Squash and selection trials for the team representing IITR at various tournaments
- Participated in quarterfinals of Udghosh 2017, IIT Kanpur and Sportech 2018, IIT Delhi

**Deputy General Secretary - Wellness Centre IIT Roorkee**

Aug 2018 - Ongoing

- Wellness Centre is a student body working with the Institute Student Counsellor in counselling students
- Spearheading Website Development division and Counselling division of Wellness Team IIT Roorkee
- Raised INR 18 lacs for providing financial assistance to students with medical emergencies through crowdfunding drives
- Collaborated with various online counselling startups for providing students a 24x7 counselling service
- Attended various training programs for understanding the course of action during high-risk situations

**Mentor - Student Mentorship Program**

July 2018 - Ongoing

- Student Mentorship Program is an initiative that aims to foster healthy senior-junior interaction making transition to campus life easier for the incoming freshmen by allotting mentors
- Mentored a group of 6 first year students of chemical engineering with their academic, career and co-curricular activities

**Co-coordinator - Cognizance- Annual Technical Fest of IIT Roorkee**

Dec 2016-Mar 2017

- Cognizance is the technical fest of IIT Roorkee with a budget of INR 13 million with over 2900 participants all over India
- Worked towards bringing collaboration and sponsorships from various giants of Fortune 500 Companies, Startups, Central and State Ministries and developed proposals and planned various portfolios for branding for the above
- Experienced in dealing with HR professionals, Vice Presidents and CEOs of various companies and startups

**Manager - Sponsorship, TEDx IIT Roorkee**

April 2017-Oct 2017

- TEDx IIT Roorkee is an independent chapter of TED organized by IIT Roorkee periodically
- Led the online sponsorship division which was responsible for mainly collaborating with startups and various companies
- Formulated various deliverable strategies, branding portfolios and price listing for various types of sponsors
- Organized various sponsorship trips to nearby cities and attended meetings with potential sponsors in these cities

**Volunteer - National Service Scheme (NSS)**

July 2015- May 2016

- Designed study room material for students of class 5th and prepared them for Jawahar Navoday Vidyalaya entrance exams.