

Mayank Sinha

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Education

July 2014 – May 2018	B. Tech (Hons.), Chemical Engineering, IIT Kharagpur	CGPA – 7.99/10
July 2014	Senior School Certificate Examination, CBSE	Percentage - 94.6
May 2012	All India Senior Secondary Examination, CBSE	CGPA - 10/10

Achievements and Certificates

- Won **Gold** in INTER-HALL Mathematics Olympiad in General Championship Technology IIT Kharagpur (2017)
- Won **Bronze** at OPEN-IIT Mathematics Olympiad held at IIT Kharagpur (2015)
- Secured percentile score of **99.83** in the Joint Engineering Entrance Examination (Main and Advanced) (2014)
- Secured percentile score of **99.9** in Regional Mathematics Olympiad from the state of Bihar (2012)

Skills

- **Computer Skills:** **Programming Languages** (Python, R), **Database Management** (SQL), **Software** (MATLAB, Microsoft Office, Tableau)
- **Data Science:** **Python Libraries** (Numpy, Pandas, Seaborn, Scikit-Learn), **Framework** (Tensorflow, Keras)
- **Linguistic Skills:** **Hindi** (Mother Tongue), **English** (Professional Proficiency)
- **Management Skills:** **Team Management, Problem Solving, Planning and Decision Making**

Internship

Summer Intern, Lanxess India Pvt. Ltd.

(May 2017 – July 2017)

1. Created a mathematical model to predict the condition of trucks carrying chemicals
 - a. Found all the essential questions required to assess the quality of the trucks for carrying the chemical in and out of the factory
 - b. Converted the questions into mathematical values and based on the importance of the question developed a model to grade the trucks
 - c. Developed a windows application, which uses data from Excel, based on the mathematical model for the same using MATLAB
2. Facilitated the shifting of Vulcazit and Vulkanox plant from Kalo, Belgium to Jhagadia, India
 - a. Did equipment by equipment analysis between the existing and upcoming plant to find equipment to change for reducing the cost
 - b. Did complete nomenclature of all the equipment present in the plant based on the company's naming structure
 - c. Did preliminary hazardous operation check for all the pipes, pumps and valves
3. Optimisation of Distillation column used for separation of MIBK and MIBC
 - a. Optimized an existing distillation column using ASPEN simulations by adjusting the feed rate, reflux rate and distillate
 - b. Improved the quality of the product by pre-treating the feed from water to change the azeotropic composition of both the chemicals
 - c. The idea was to reduce the distillation temperature as well by forming the azeotropes which require less heat duty

Relevant Courses

1. Google Professional Data Analytics Certificate - 7UNDQRZNNDC2 (Coursera: Credential ID)
 - a. Learned key analytical skills (data cleaning, analysis, & visualisation) and tools (spreadsheets, SQL, R programming, Tableau)
 - b. Successfully completed capstone project as part of the course
2. Deep Learning Specialisation by Andrew Ng - CFW7HLFA5WF4 (Coursera: Credential ID)
 - a. Neural Network and Deep Learning
 - b. Improving Deep Neural Networks: Hyperparameter Tuning, Regularization, and Optimization
 - c. Convolutional Neural Networks
 - d. Sequence Models and NLP

Position of Responsibility

1. Captained the **Biz Quiz Team** for Nehru Hall of Residence and won **Silver** (July 2016 – April 2017)
2. Captain of the **Tech Quiz Team** for Nehru Hall of Residence (July 2017 – April 2018)
3. Captain of the **ChemQuest Team** for Nehru Hall of Residence (July 2017 – April 2018)
4. Core Team Member, KGPIan Game Theory Society (January 2015 – December 2015)

Interests and Hobbies

- Open-Source, Programming
- Quizzing, Puzzles, Riddle, Game Theory
- Playing Guitar, Reading, Writing

Extra Academics Activities

- Unit Leader, NSS Unit 3, IIT Kharagpur. Co-ordinated teaching, road building and surveying in 3 nearby villages (July 2015 – April 2016)
- Member of Inter Hall Mathematics Olympiad Team of Nehru Hall of Residence, IIT Kharagpur (July 2015 – April 2018)
- Member of Inter Hall Quiz Team of Nehru Hall of Residence, IIT Kharagpur (July 2015 – April 2018)
- Member of Inter Hall ChemQuest Team of Nehru Hall of Residence, IIT Kharagpur (July 2015 – April 2018)