

Harsh Khetan

Curriculum Vitae

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Interests

Statistics, Data Science, Machine Learning, Regression Models

Education

- 2013-Present **Integrated Masters in Mathematics and Computing**, *Indian Institute of Technology*, Kharagpur, CGPA - **9.23/10** (till 4 semesters).
- 2010-2012 **Higher Secondary Examination**, *City Montessori School*, Lucknow, 94.20%.
- 2008-2010 **Secondary Examination**, *Little Flower School*, Maharajganj, 89.20%.

Projects

- Open-IIT **Stock Analysis of Retail Stores**, *Data Analytics*.
- 2015
- Implemented **Standard Deviation, Service Level & Normal Distribution** Technique to Optimize **Buffer Stock** using R & Excel for the given sales data of retail stores.
 - Identified the Place & Period in which **Out of Stock** situation occurred using **Seasonality Comparison** of three year sales data and **Sudden Deviation** calculation using R & Excel.
 - Won **Gold** in the event.

Honours and Awards

Academic

- Secured a **Branch Change** from B.Tech in Chemical Engineering to Integrated M.Sc. in Mathematics and Computing
- Currently ranked **2nd** out of 54 students in the Department of Mathematics, IIT Kharagpur
- Secured a position in **0.5%**(All India Rank - **2434**) in the Joint Entrance Examination (JEE) Advanced, 2013
- Secured All India Rank - **670** with a score of **325/360** in the Joint Entrance Examination (JEE) Mains, 2013
- Secured **338** marks out of 450 in Birla Institute of Technology and Science Aptitude Test (BITSAT), 2013

Scholarships

- Recipient of the **Innovation in Science Pursuit for Inspired Research** (INSPIRE) scholarship. A program funded and managed by Department of Science and Technology, India. It is offered to top 1.0% of the students pursuing sciences in the country on competitive basis.

Technical Skills

Programming Languages C, C++, JAVA, MATLAB, OCTAVE, PYTHON, R

Web	HTML, CSS, JAVASCRIPT
IDE	BLUEJ, ECLIPSE, NETBEANS, RSTUDIO
Operation Systems	Windows, Ubuntu
Software Packages	MATLAB, ,SOLID WORKS, LATEX(basic)

Relevant Coursework (upto 5th semester)

Computer Science

- Programming and Data Structures(Ex)+Lab(Ex)
- Design and Analysis of Algorithms(C)+Lab(A)
- Discrete Mathematics(C)
- Computer Organisation and Architecture*
- Object Oriented Systems Design*+Lab*

Mathematics

- Mathematics-1(Ex)
- Mathematics-2(Ex)
- Partial Differential Equations(Ex)
- Transform Calculus(A)
- Probability and Statistics(A)
- Numerical Solutions of ODE and PDE(Ex)
- Mathematical Methods*
- Real Analysis*
- Linear Algebra*

Others

- Mechanics(A)
- Chemistry(Ex)+Lab(Ex)
- Physics(Ex)+Lab(Ex)
- Basic Electronics(Ex)+Lab(Ex)
- Electrical Technology(A)+Lab(A)
- English for Communication(A)+Lab(A)
- Economics(A)
- General Psychology*(Breadth)

(* Ongoing Courses)

Grading System: EX = 10/10, A = 9/10, B = 8/10, C = 7/10, D = 6/10 ...

MOOCs

- The Data Scientist's Toolbox, R Programming by Jeff Leek, Roger D. Peng, Brian Caffo from Johns Hopkins Bloomberg School Of Public Health
- Online Summer Training on Analytics, jointly conducted by Internshala and Analytics Vidhya
- Machine Learning by Andrew Ng from Stanford University
- Programming for Everybody (Python) by Charles Severance from University of Michigan

Extra-curricular Activities

- I was a part of **Gold** winning team in Inter Hall Bengali Dramatics.
- I served as a **Design Team Member** for Rangoli in my Hall.
- I served as a volunteer under **National Service Scheme (NSS)** for 2 years.
- I was a member of Guest Reception Team of Spring Fest, social and cultural festival of IIT Kharagpur.
- I was elected for the post of **Cricket & Athletics Secretary** in my Hall. I planned and managed INR 1.22 lakhs for the proper maintenance of sports.I conducted the games properly which led to win **Gold** in Inter Hall Athletics Competition.
- I am also a member of Cricket team of my Hall.