

Chaitanya Rai

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ACADEMIC DETAILS

Education	Institute	Year	CGPA / %
B. Tech: Chemical Engineering	IIT Kharagpur	2017- Till date	9.07 / 10
Intermediate	Maheshwari Public School, Jaipur	2014 - 2016	91.4 %

MAJOR PROJECTS

- **Multi-objective optimization-based machine learning approach in prediction of occupational risk** (Research Project)
(IIT Kharagpur , Oct'17 - present)
 - Employed **SVM** and **Random Forest** to predict the class of risk and compared their accuracy.
 - Used **NSGA-II** and **MOPSO** for tuning and optimizing parameters of the algorithm to improve the performance of classifier.
 - Analysed best classifier for injury risk prediction.
- **An integrated fuzzy multiple criteria supplier selection approach based on Z-Numbers** (Research Project)
(IIT Kharagpur , Aug'17 - present)
 - Applied **Z-Number Best Worst Method(ZBWM)** as a Multi Criteria Decision Making(MCDM) method to weight green criteria.
 - Employed **Fuzzy-PROMETHEE** and **F-TOPSIS** method to rank suppliers on the basis of multiple criteria.
 - Used **Multiple Objective Optimal Order Allocation** and **FMOLP** to allocate orders to different suppliers to maximise benefit for an organisation.
- **Open IIT Data Analytics Competition**
(IIT Kharagpur , Secured Bronze)
 - Employed **ARIMA Time Series Model** to the given data of sales of 3 different types of medicine to predict the sales pattern in coming years.
 - Deduce interpretation from the analysed data to device Inventory Management Strategy to maximise profit and increase sales.
 - Platform used: **R** and **MS-Excel**

AWARDS AND ACHIEVEMENTS

- Ranked in **National Top 0.3%** (amongst 1,300,000 candidates) in JEE Mains 2017.
- Ranked in **National Top 1.8%** (amongst 220,000 candidates) in IIT-JEE Advanced 2017.
- Scored **95.4 Percentile** in class XII Boards.

TECHNICAL SKILLS

- **Languages** C, C++, Python, Matlab,R Programming, Java, Octave, Lingo
- **Software & Tools** MS-Excel, MS-PowerPoint, MySQL, SolidWorks, Auto CAD, MS Visio, MiniTab

RELEVANT COURSES

- **Machine Learning:** (Andrew NG,Coursera)Mathematics behind the Machine Learning models.
- **The Analytics Edge:** (EDX)Application of Machine Learning algorithms in R.
- **Python for Data Science:** (Edx)Data science packages such as Panda,Matplotlib and Numpy.
- **Neural Networks & Deep Learning:** (Coursera)In depth knowledge of neural networks.
- **Probability & Statistics**