



# ARNAV RAJ VERMA

Second Year Undergraduate, Department of Chemical Engineering, IIT Kharagpur

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## EDUCATION

Degree/Certificate	Institute	Year	CGPA/ %
Integrated Btech & Mtech	Indian Institute Of Technology Kharagpur	2017-Present	<b>8.78/10</b>
XII(CBSE)	Jagat Mission Senior Secondary School	2017	<b>92.8 %</b>
X(CBSE)	Delhi Public School, Patna	2015	<b>10.00/10</b>

## TECHNICAL STRENGTHS

<b>Computer Languages</b>	C Programming, Python Programming, R Programming, JAVA language, HTML
<b>Software &amp; Tools</b>	Microsoft-Excel, Microsoft-PowerPoint, MySQL Database, SolidWorks, Auto CAD

## EXPERIENCE

**IIT Kharagpur, Research Project** *Sep'18-Present*  
**Application Of Machine Learning techniques to INCIDENT Data.**

- Employed **Neural Network** and **Logistic Regression** to a vast range of incident report (**Aviation reports** and **Construction incidents**) to predict the impact of incidents with the help of factors responsible for the incident.
- Analyzed the predicted data to find a correlation between the impact of incidents and the factors such as **Primary Cause, Activity Type, Season & Shift** so that we can avoid the risk of similar incidents in the upcoming years.
- Applied **Text data mining** algorithms on documented **Aviation Incident reports** to categorize them through topic modelling algorithms : **STM - Structural Topic Modelling & LDA - Latent Dirichlet allocation.**

**Open IIT Data Analytics Competition** *IIT Kharagpur, Secured Bronze*

- Employed **ARIMA(Autoregressive Integrated moving average) Time series model** to the given sales data of 3 different types of medicine to predict the **Sales pattern, Safety Stock** and **Inventory Level** in the coming years.
- Deduced interpretation from the analyzed data to devise **Inventory Management Strategy** to maximize profit.
- Platform used: **R** and **Ms-Excel**.

## ACADEMIC ACHIEVEMENTS

- Ranked in **National Top 0.4%** (amongst 1,300,000 candidates) in **JEE(Joint Entrance Exam) Mains 2017**.
- Ranked in **National Top 3%** (amongst 200,000 candidates) in **IIT-JEE Advanced 2017**.
- Scored **95.4 Percentile** in all India **CBSE** (Central Board of Secondary Education) class **XII Boards**.

## RELEVANT COURSES

- Machine Learning:** (Andrew NG, Coursera) Mathematics behind the Machine Learning algorithms.
- The Analytics Edge:** (EDX) Application of Machine Learning algorithms in R and Data Visualization.
- Python for Data Science:** (Edx) Data science packages such as **Panda, Matplotlib & Numpy** in Python.
- Text Mining and Analytics :** (Coursera) **Natural Language Processing** Techniques and **Topic Modelling**.
- Neural Networks & Deep Learning:** (Coursera) In depth knowledge of neural networks from the AI point of view.

## EXTRA-CURRICULAR

- Best Freshers** in the event "**POLES APART**", **KSHITIJ 2018**, Asia's Largest Technology - Management fest.
- Part of **Bronze winning** football team in intra IIT General Championship 2018, IIT Kharagpur.
- Part of **Silver winning** **ILLUMINATION 2017** in intra IIT Cultural General Championship, IIT Kharagpur.
- Part of **Gold Winning** team in intra IIT **Dramatics** General Championship 2018, IIT Kharagpur