

ACADEMIC DETAILS				
YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	BOARD/ UNIVERSITY	PERCENTAGE
2018-Present	M.Tech(Industrial & Management Engineering)	Indian Institute Of Technology, Kanpur	IIT Kanpur	7.25* (CPI)
2012-16	B.Tech (Mechanical Engineering)	Rajkiya Engineering College, Azamgarh	U.P.T.U	73%
2012	Class XII	DALIMSS Rohania,Varanasi	CBSE Board	94%
2010	Class X	DALIMSS Rohania,Varanasi	CBSEBoard	9.4 (CGPA)

\*upto 2<sup>nd</sup> semester

PROFESSIONAL EXPERIENCE	
<b>Company:</b> NGI Ventures, Noida   <b>Position Held:</b> Data Science Intern <ul style="list-style-type: none"> <li>Deployed Machine Models such as <b>Simulation</b>, <b>Cox Regression</b> and <b>Polynomial Regression</b> and adding Statistical Parameters to it.</li> <li>Tested the Cox Model on Lung Cancer dataset to analyze the effect of standard and test medicines on survival of patients by plotting <b>KMF Curves</b>.</li> <li>Applied the Simulation Model on Stock price dataset (<b>8000 data points</b>) and calculated <b>CAGR</b> and <b>Annual volatility</b> using Random Walk method.</li> <li>Worked on Customer Lifetime dataset (<b>9000 data points</b>) to check lifetime values, model used was <b>Random Forest Classifier</b> with the accuracy of <b>0.856</b>.</li> </ul>	<b>Mentor:</b> Upal Roy <i>May-July,2019</i>
<b>Power BI Tool</b> <ul style="list-style-type: none"> <li>Build <b>Dashboards</b> in Power BI for the domains like <b>Insurance</b>, <b>Education</b> and <b>Supply Chain</b>. Studied the insights using visualizations like <b>Waterfall Charts</b>, <b>Geo Maps</b>, <b>Tornado Charts</b>, and <b>Heat Maps</b> etc. Also included Key Performance Indicators (KPIs) like <b>Gauge Charts</b> and <b>Bullet Chart</b>.</li> </ul>	

ACADEMIC PROJECTS	
<b>Data Mining</b>	<b>Music Recommendation System</b> <span style="float: right;">Sep-Oct,2019</span> <b>Objective-</b> Build a best Music Recommendation System with the dataset containing over <b>30 million</b> tracks and Predict the chances of a user listening to a song repetitively after the first observable listening event. <b>Solution Approach-</b> Performed preprocessing on the dataset including <b>PCA</b> , use <b>k-fold crossvalidation</b> for generating training and validation dataset. Fitted the training data in model built using classifiers like <b>SVM decision tree</b> , <b>KNN</b> and <b>XGBoost</b> . Plotted <b>ROC</b> curve and calculated <b>AUC</b> . Selected <b>XGBoost</b> as the best model with <b>69.62%</b> accuracy.
<b>Statistical Modeling</b>	<b>Time Series Forecasting of Ridership on Amtrak Trains</b> <span style="float: right;">Mar-Apr,2019</span> Amtrak ,a US railway company ,routinely collects data on ridership, we developed an accurate model that can be used to predict the number of ridership between January 1991 and march 2004( <b>159</b> months). Constructed a second level forecasting model AR (1) on residuals to capture <b>autocorrelation</b> and plot <b>ACF</b> and <b>PACF</b> . Used Box-Jenkins method to find the best fit of a time series <b>ARIMA</b> model. <b>Analysis of Budget spent on different Advertising media by number of Sales</b> <span style="float: right;">Jan-Feb,2019</span> Develop a model to predict <b>sales</b> of a product in 200 different markets on the basis of TV, Radio and Print Media advertising budget. Descriptive Statistics of the dataset like <b>SD</b> , <b>Correlation</b> , <b>Multicollinearity</b> along with <b>Regression analysis</b> using <b>linear and Non Linear Model</b> (Single and Multiple Regressor), and on basis of <b>R<sup>2</sup></b> value of <b>0.9</b> , Multivariate regression model was selected.
<b>Analytics in Transport and Telecom</b>	<b>Fixed Charge Capacitated Plant Allocation Problem using CPLEX Optimizer</b> <span style="float: right;">Mar-Apr,2019</span> <b>Problem Statement-</b> Amul Dairy has 3 processing plants, due to growth in demand Company wants to buy 1 or more dairy farms with fixed annual cost and liters of milk produced annually among 1500 farms all over the country. <b>Objective-</b> Find which <b>dairy farms</b> to be <b>purchased</b> , operated and which shipments be made to keep the operational <b>cost minimum</b> . <b>Solution Approach-</b> Formulated the problem <b>mathematically</b> as a <b>mixed integer programming</b> problem and modelled the algorithm. Compared the solutions obtained by applying two different <b>heuristic</b> approach.

COURSEWORK AND SKILLS	
<b>Relevant Courses</b>	Probability and Statistics   Statistical Modeling for Business Analytics  Advanced Statistical Methods for Business Analytics   Analytics in Transport and Telecom  Advanced Decision Models  Operations Research for Management   Data Mining
<b>Technical Skills</b>	R   Python   Java   MS Office  Power BI

POSITIONS OF RESPONSIBILITY
<ul style="list-style-type: none"> <li>Worked as <b>Team Leader</b> and helped the team to secure <b>3<sup>rd</sup></b> position in sub junior <b>National Carrom</b> Championship.</li> <li>Worked with the <b>team</b> of Counseling Services as an <b>OTM</b> to organize an <b>8 day</b> extensive Orientation Program.</li> </ul>

CERTIFICATIONS
<ul style="list-style-type: none"> <li>Completed <b>Power BI</b> certification for Data Analytics by <b>Microsoft</b>. <span style="float: right;">(4 July,2019)</span></li> <li><b>Certified</b> as <b>Business Analytics Practitioner</b> by completing the courses.</li> <li><b>Machine Learning</b> with <b>Python</b> certification by Cognitive Class.ai (<b>IBM</b>). <span style="float: right;">(27 June,2019)</span></li> </ul>

AWARDS & ACHIEVEMENTS
<ul style="list-style-type: none"> <li>Cracked Gate 2018 with 99.2 percentile and obtained the all India score of 757.</li> <li>School Topper in 12 <b>Board exams</b> with <b>94%</b> marks.</li> <li>Secured <b>1<sup>st</sup></b> position in inter-house <b>Music</b> Competition</li> <li>Secured <b>6<sup>th</sup></b> position in <b>District Chess</b> Tournament.</li> </ul>