

ACADEMIC DETAILS			
YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	PERCENTAGE
2019-21	M.Tech (Industrial & Management Engineering)	Indian Institute Of Technology, Kanpur	8.0 (CPI)
2013-17	B.Tech (Mechanical Engineering)	University College Of Engineering, R.T.U. , Kota	69.65%
2013	Class XII (CBSE)	Happy Public School, Alwar	79.4%
2011	Class X (CBSE)	St. Anselm's School, Alwar	9.2 (CGPA)
DATA SCIENCE INTERNSHIP AT HARVESTING			(May-June '20)
BUILDING VALUATION			
<b>To determine monetary value of buildings in a specific area based on historical building data and remote sensing data</b>			
<ul style="list-style-type: none"> <li>Extracted amenity data in the region using <b>QGIS(OSM)</b> and used <b>Haversine Formula</b> to calculate distances between buildings and amenities</li> <li>Modelled the problem using <b>Linear, Polynomial Regression, K-NN, Support Vector Machine, Decision Tree, Random Forest Regression</b></li> <li>Obtained <b>R-squared value</b> of <b>0.895</b> using Random Forest</li> </ul>			
FARM SCORE EVALUATION			
<b>To estimate the farm score of farms located in Bathinda region of Punjab using farm boundaries and other remote sensing data</b>			
<ul style="list-style-type: none"> <li>Estimated Farm Score using <b>remote sensing data</b> of farms in <b>Bathinda, Punjab region</b></li> <li>Evaluated <b>farm area, mean farm elevation, mean NDVI</b> and <b>farm distance</b> from important amenities to calculate <b>score</b></li> <li>Developed Farm Score formula using <b>Analytical Hierarchy Processes</b></li> </ul>			
ACADEMIC PROJECTS			
<b>Data Mining</b>	<b>Fake News Classifier</b> - To build a system that identifies unreliable news articles using headings of news articles <ul style="list-style-type: none"> <li><b>Vectorized</b> headings of news articles using <b>Count Vectorizer</b> and <b>TF IDF vectorizer</b></li> <li>Cleaned text using <b>PorterStemmer, Stopwords</b> class to improve the model accuracy</li> <li>Trained the dataset using <b>Multinomial Naive Bayes(with and without Hyperparameter)</b> and <b>Passive Aggressive Algorithm</b></li> <li>Achieved an <b>accuracy score</b> of around <b>0.92</b> using <b>Passive Aggressive Algorithm</b> with <b>TF IDF Vectorizer</b></li> </ul>		
<b>Statistical Modelling for Business Analytics</b>	<b>Medical Insurance Premium Prediction</b> - To predict the cost of medical insurance premium and to study the factors affecting it <ul style="list-style-type: none"> <li>Encoded the categorical data using <b>OneHotEncoder</b> and <b>LabelEncoder</b> and avoided <b>Dummy Variable Trap</b></li> <li>Applied <b>Simple</b> and <b>Multiple Linear Regression</b> technique</li> <li>Incorporated an <b>interaction feature</b> BMI OF SMOKERS and significantly improved the <b>Adjusted R- Square value</b> to <b>0.82</b></li> </ul>		
	<b>Bank Marketing Campaign Analysis</b> - To extract information from existing marketing campaign to develop next marketing campaign <ul style="list-style-type: none"> <li>Implemented <b>Logit</b> and <b>Probit</b> models to classify the subscription class</li> <li>Checked for <b>multi collinearity</b> of features using <b>VIF</b> and dropped down variables to avoid multi collinearity</li> <li>Achieved an <b>accuracy</b> of about <b>76%</b> , <b>precision</b> of <b>0.73</b> and <b>AUC of ROC curve, 0.85</b></li> </ul>		
	<b>Three Month Sales Prediction</b> - To predict the three-month sales of 50 different items in 10 different stores <ul style="list-style-type: none"> <li>Data consisted of daily sales of <b>50 different items in 10 stores</b> from <b>2013 to 2017</b></li> <li><b>Time series</b> for Store-1 and Item-1 showed that series was <b>seasonal</b> and <b>non-stationary</b></li> <li>Confirmed <b>nonstationarity</b> of series was by <b>ADF</b> and <b>KPSS</b> tests and <b>seasonality</b> was seen from <b>ACF</b> and <b>PACF</b> plots</li> <li><b>ARIMA</b> did not perform well due to high frequency of data and <b>NNETAR</b> model was <b>overfitting</b> the series</li> <li><b>Prophet Model</b> was the best model with <b>SMAPE of 1.99</b></li> </ul>		
<b>Marketing Research</b>	<b>Brand Comparison between PUMA, ADIDAS and NIKE footwear</b> - Conducted the online survey & did Analysis in SPSS <ul style="list-style-type: none"> <li><b>Research questions</b> -What role does <b>price</b> play while purchasing footwear? Which product is better on basis of build <b>features</b>? Is <b>variety</b> a vital factor while buying footwear? How do <b>discounts</b> offer work in simulating footwear purchase? What features of the <b>current advertisement campaign</b> are effective? What factors contribute to <b>switching to another brand</b>?</li> <li>Performed various <b>parametric and non-parametric tests</b> in SPSS &amp; gathered <b>customer insights</b></li> </ul>		
ONLINE LEARNING AND CERTIFICATION			
Machine Learning A-Z: Hands-on Python in Data Science   Machine Learning Practical   <b>Python for Data Science</b> by IBM   <b>Python Data Structures</b> by University of California   <b>SQL for Data Science</b> by University of California   <b>Deep Learning A-Z: Hands-on neural networks</b>			
COURSEWORK AND SKILLS			
Data Mining and Knowledge Discovery   Operations Research   Probability & Statistics   Introduction to Computing (JAVA)   Market Research   Stochastic Processes   Advanced Decision Models   Statistical Modelling for Business Analytics   Business to Business Marketing*   Game Theory*			
Python(NumPy, Pandas, seaborn, sklearn, keras, TensorFlow)   R (Dplyr, Ggplot, Plotly, plm)   Java   SQL   MS Office			<i>*Ongoing Courses</i>
POSITIONS OF RESPONSIBILITY			
<b>Teaching Assistant, IIT Kanpur</b>	Managed and provided support to 50 students and administered exams		<i>Sept '2020 – Present</i>
<b>M.Tech Lab In Charge, IME, IIT Kanpur</b>	Managed and assisted students in issues related to software and biometric authentication		<i>2019 - Present</i>
<b>Coordinator, LANX</b>	Executed a college level LAN gaming tournament at UCE, Kota		<i>March 2017</i>
ACHIEVEMENTS & CERTIFICATIONS			
<ul style="list-style-type: none"> <li>Secured <b>1171 rank</b> in GATE-2019 examination, conducted by <b>Indian Institute of Technology, Madras</b></li> <li>Participated in <b>Table Tennis</b> competition at <b>Aaghaz , IIT Kanpur</b> and won silver</li> <li>Participated in group dance competition and won at <b>Anukriti, UCE, Kota</b></li> <li>Participated in <b>trekking expedition</b> organized by <b>Adventure Club, IIT Kanpur</b> to <b>Annapurna Base Camp, Nepal</b></li> </ul>			