

# Nikesh Kumar Nirala

1st Year M. Tech

Department of Management Science (DoMS)

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ACADEMIC QUALIFICATIONS:			
Qualification	Institute	CPI /%	Year
MTech   Industrial & Management Engineering	Indian Institute of Technology, Kanpur	—	2024 - Present
B. Tech   Textile Chemistry	The Technological institute of Textiles & Sciences	70.0%	2016-2020
Higher Secondary Education   BSEB	R.K.M.G.G College shivajinagar, Samastipur	63.2 %	2015
Secondary Education   BSEB	High School Shivajinagar, Samastipur	66.6%	2013
WORK EXPERIENCE:			
Vardhman Textiles Ltd.			Jan' 21 – July 24
➤ <b>Executive at QA department (18/06/2022 to 06/07/2024)</b>			
<ul style="list-style-type: none"><li>Developing process enhancement strategies after <b>analyzing the data</b> for continuous development.</li><li>Analyzing the packing % monthly and to <b>provide an action plan</b> for quality defects, customer complaints etc.</li><li>To ensure internal as well external fabric quality, conduct daily meetings with another department for finding <b>root cause analysis</b>.</li><li>Conduct regular <b>customer factory visits</b> for attending complaints and resolving the issue.</li><li>Maintaining reports and preparing monthly excel file and PowerPoint presentation for management analysis and future action.</li><li>Accountable for smooth functioning of production.</li></ul>			
➤ <b>Shift Engineer at operation department (01/01/2021 to 17/06/2022)</b>			
<ul style="list-style-type: none"><li><b>Optimize process assembly line</b>, allocation work man according to machine planning. Individual shift handling in the operation department.</li><li>Optimize resources to maximize productivity, meet daily target production and <b>manage assembly lines</b>.</li><li><b>Ensuring product quality</b> at different stages also ensures delivery of product from one department to another department.</li></ul>			
KEY PROJECTS:			
<b>Boston Houses Price Prediction   Statistical Modelling for Business Analytics   Multiple Linear Regression</b>			
Objective	➤ To <b>predict the prices of houses</b> in Boston district using <b>Linear Regression</b>		
Approach	➤ <b>Analyzed dataset</b> consisting of <b>506 rows &amp; 14 features</b> & found out <b>features affecting the house prices</b> majorly. ➤ <b>EDA</b> : Plotted <b>dist-plots, box plots, scatterplots &amp; correlation matrix</b> to check for <b>multicollinearity &amp; VIF</b> . ➤ Performed <b>Breusch-Pagan test</b> to check & understand <b>heteroscedasticity</b> in the <b>dependent variable</b> .		
Result	➤ Obtained <b>R<sup>2</sup> value of 0.733</b> and <b>adjusted R<sup>2</sup> value of 0.723</b> with <b>95% confidence level</b> .		
<b>Credit Card Fraud Detection   Applied Machine Learning   Classification</b>			
Objective	➤ To classify whether a <b>given transaction is fraudulent or not</b> using machine learning <b>classification algorithms</b> .		
Approach	➤ Used <b>under-sampling (Near-Miss) &amp; over-sampling (SMOTE technique) method</b> to deal with <b>imbalanced dataset</b> . ➤ <b>t-SNE algorithm &amp; Principal Component Analysis (PCA)</b> were used for <b>dimensionality reduction</b> . ➤ Used classification algorithms: <b>Logistic Regression, KNN, SVM, Decision Tree, XGBoost &amp; AdaBoost</b> for prediction.		
Result	➤ Various <b>classification metrics</b> were used to <b>compare the models</b> . <b>XGBoost &amp; AdaBoost improved model performance</b> .		
<b>Denim Like wash down effect on trouser   Anti-Migrating agent   Fader</b>			
Objective	➤ To achieve <b>denim like wash down effect on trouser</b> by using liquid reactive dyes and anti migrating agent.		
Approach	➤ Used <b>steam dry methodology</b> ➤ Used <b>stone washing methodology</b> ➤ <b>Different recipe trails</b>		
Result	➤ <b>Successfully implement wash down effect on trousers</b> as per customer requirement.		
COURSEWORK & SKILLS:			
<i>*in progress</i>			

Relevant Courses	<b>Statistical Modelling for Business Analytics*</b>   <b>Applied Machine Learning*</b>   Introduction to Computing*   Probability & Statistics*   Operational Research*
Technical Skills	<b>Python   SQL   MS-Excel   Machine Learning</b> Pandas, NumPy, Matplotlib etc.
Soft Skills	<b>Team Management   Adaptability at any environment   Decision Making   Leadership   Communication skills</b>

ACHIEVEMENTS & CERTIFICATIONS:	
➤ Secured <b>AIR-24</b> in <b>GATE-2024</b> in the <b>Textile Engineering</b> branch.	
➤ Won <b>2<sup>nd</sup> prize</b> in <b>VOYAGERS Society in Quiz competition @ TIT&amp;S Bhiwani</b>	
➤ Participated in international textile conference <b>Textile Summit-2018</b> at new Delhi.	
POSITION OF RESPONSIBILITY:	
➤ <b>Junior Placement Coordinator (JPC)</b> at IIT Kanpur.	
➤ <b>Event Organizer UDGHOSH 24</b> (Asia largest inter college sports fest), IIT Kanpur	
<ul style="list-style-type: none"><li><b>My responsibility is to manage all show management related work, manage the team to successfully organize these events.</b></li><li><b>Manage all the decoration related work in IIT Kanpur campus for UDGHOSH24</b></li><li><b>Coordinating with different vendors like Tents, printing (Flex &amp; Non-Flex), messing, barricading, media, DPs and labor etc.</b></li></ul>	
➤ <b>Messing in charge at Vardhman textiles ltd.</b>	
<ul style="list-style-type: none"><li>Hygiene and Safety Compliance</li><li>Menu Planning and Food Quality</li><li>Inventory Management and budget management.</li></ul>	
➤ <b>Represented textile chemistry department at platinum jubilee celebration for making different design of t-shirt @TIT&amp;S</b>	