

# DHRUV KUMAR SAHU

MTech | Department of Management Science | IIT Kanpur

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## EDUCATION

YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	CGPA/PERCENTAGE
2024-Present	MTech   Department of Management Science	Indian Institute of Technology Kanpur	-
2019-23	BTech   Textile Chemistry	Uttar Pradesh Textile Technology Institute, Kanpur	8.51 CGPA
2018	Higher Secondary Education   State Board	Shri Nand Lal Khanna Vidya Mandir Inter College, Kanpur, U.P.	88%
2016	Secondary Education   State Board	Stepping Stones Intermediate College, Kanpur, U.P.	83%

## PROJECTS

SELF Project	<b>Objective:</b> <a href="#">Predicting whether customer will click on an ad or not, based on the characteristics features of that user.</a> <b>Approach:</b> <ul style="list-style-type: none"><li>Visualized the data using <b>distplot, pairplot and jointplot</b> examined multicollinearity with correlation matrix.</li><li>Performed <b>one hot encoding</b>, detected outlier using boxplot &amp; removed them using <b>inter-quartile range</b> method.</li><li>Performed feature elimination based on <b>p-value</b> and Used <b>Statsmodel &amp; Scikit learn</b> for model building.</li><li>Generated Classification report for the test set to get precision, recall and <b>F1-score</b>.</li></ul> <b>Result:</b> Achieved Test accuracy of 91% and Test F-1 score of 91%
	<b>Objective:</b> <a href="#">To predict cost of medical insurance based on demographic and health data of an individual.</a> <b>Approach:</b> <ul style="list-style-type: none"><li>Library used: <b>Pandas, Scikit learn, matplotlib, statsmodel &amp; numpy.</b></li><li>Performed Preprocessing of data by conducting null value treatment, outlier detection and removal using <b>IQR method, duplicates removal</b> etc.</li><li>Correlation between features and targets was visualized using <b>correlation matrix</b>.</li><li>Checked for <b>homoscedasticity</b> by visualizing residual versus the predicted plot.</li><li>Developed <b>linear regression model and used R squared and MSE scores</b> for its evaluation.</li></ul> <b>Result:</b> Mean Square Error (MSE) = 0.1873 and R square value: 0.77957.

Relevant Courses (Ongoing)	Statistical Modelling for Business Analytics   Probability & Statistics   Operations Research for Management   Introduction to Computing
Certified Online Courses	<ul style="list-style-type: none"><li>Career Essential in <b>Business Analysis</b> – Microsoft and LinkedIn</li><li>A Day in the Life of <b>Data Scientist</b> – LinkedIn</li><li><b>Advance Diploma in Computer Application</b> – Data Expert</li><li>Introduction to <b>Industry 4.0</b> and Industrial <b>Internet of Things</b> – NPTEL</li><li>Completed <b>Generic Online Training in Cyber Security</b> - MeitY</li><li>Diploma in the Foundations of <b>Probability and Statistics</b> - Alison</li></ul>
Technical Skills	SQL*   Python   Power BI*   MS Excel   Java

## POSITION OF RESPONSIBILITIES

<b>Senior Executive (Show Management), UDGHOSH, IIT Kanpur</b> (Aug'24) <ul style="list-style-type: none"><li><b>Managing India's Largest Sports Event in IIT Kanpur</b> where effective communication strategies, Coordination with multiple teams of maximum members, ensuring smooth operation and timely completion of tasks.</li><li>Coordinating with vendors, participants, and guests scheduled to prepare in the shows, managing their schedules, accommodations, and requirements.</li><li>Granting Permission from top authorities to setup each and every items on the event.</li></ul>
<b>Work Experience:</b> Subject Matter Expert (Mathematics)-Chegg India Pvt. Ltd. (Jul'23-Jun'24)

## ACHIEVEMENTS and EXTRA-CURRICULARS

<ul style="list-style-type: none"><li>Secured <b>33 rank</b> in GATE 2024 Textile Engineering &amp; Fiber Science Paper.</li><li><b>Topper in NPTEL</b> Course on Evaluation of Textile Materials</li></ul>
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LinkedIn Profile Link - [www.linkedin.com/in/dhruv-kumar-sahu-157ab9193/](https://www.linkedin.com/in/dhruv-kumar-sahu-157ab9193/)

GitHub Profile Link- <https://github.com/dhruvkumar24-ai>

\*Present / Under Progress