

AMARJIT KUMAR

M.Tech | Department of Management Sciences | IIT Kanpur

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EDUCATION			
YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	% / CGPA
2023 -25	M. Tech Department of Management Sciences	Indian Institute of Technology, Kanpur	-
2017-21	B. Tech Mechanical Engineering	Gaya College of Engineering, Gaya	8.83
2013-15	Higher Education BSEB	A.S.College Bikramganj, Rohtas	62.80%
2013	Secondary Education BSEB	Jay Mangle High School Pipardih	77%

SELF PROJECTS

Sales prediction by different advertising platforms

- Data consisting of sales of the product in **200** different markets with advertising budget in three media – TV, radio & newspaper
- Steps include **Exploratory Data Analysis**, dealing with **missing values**, **Data visualization & Outliers Treatment**
- Scaled the **Numerical variables** using the **Min-Max Scaler** Operation
- checked for **multicollinearity** using **variance inflation factor (VIF)**, also looked for **omitted variable bias**
- Feature elimination is done based on the **p-value** and **VIF** and used **Adjusted R squared** as the performance metrics for the model
- Checked the **distribution of the Residual errors on the train dataset** using the fitted model

Prediction of house selling

- **Performed variable identification, Univariate analysis, Bivariate analysis, Outlier treatment, Missing value treatment, Feature Engineering**
- Used machine learning algorithm i.e., **Logistic Regression, K – Nearest Neighbor** to predict whether the house got sold or not based on the data available and to obtain and compare the accuracy score for the test data

COURSEWORK AND SKILLS

Relevant Courses*	Probability & Statistics Operations Research for Management Introduction to Computing Statical Modelling For Business Analytics
Technical Skills	Python* Java* MS Excel MS PowerPoint SQL* Power BI*
Online Courses	<ul style="list-style-type: none">• Python for Beginners certified by Udemy• Python libraries(Numpy, Matplotlib) certified by Udemy• Microsoft Excel certified by Udemy

ACHIEVEMENTS & EXTRA CURRICULAR

- Secured AIR 233 in GATE-23 Mechanical Engineering(XE) paper.
- Awarded for Topper in BTech .
- Participated in workshop like PCB Design, IOT in BTech.

POSITION OF RESPONSIBILITY

- CLASS REPRESENTATIVE, Gaya College of Engineering, Gaya: Represented class in official/unofficial matters.