

# HARSH

M.Tech | Department Of Management Science | IIT Kanpur

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## ACADEMIC DETAIL

YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	PERCENTAGE
2023-25	M.Tech (Department Of Management Science)*	Indian Institute of Technology, Kanpur	-
2017-21	B.Tech (Mechanical Engineering)	Malaviya National Institute Of Technology, Jaipur	6.82 (CGPA)
2016	Class XII	BR DAV Public School, Bihar	89.60
2014	Class X	St. Paul's School, Bihar	88.80

## PROJECT

Self-Project	<p><b>1. Bank Personal Loan Modelling (<a href="#">Github Link</a>)</b></p> <p><b>Objective:</b> The goal is to predict the likelihood of a liability customer buying personal loans.</p> <p><b>Method:</b> Steps includes <b>Exploratory Data Analysis</b>, Data Preprocessing, <b>Classification Models</b> (Using Logistic Regression, Decision Tree , Random Forest , Gradient Boost algorithms to predict the likelihood of customers accepting personal loans) and <b>Model Evaluation</b> (Printing the confusion matrix to evaluate the performance of each model).</p> <p><b>Package used :</b> Numpy, Panda, Matplotlib, Seaborn.</p> <p><b>Result:</b> The best-performing model is selected based on its confusion matrix and overall accuracy in predicting the acceptance of personal loans by liability customers and I got that Logistic Regression model has highest accuracy equals to 98.40%.</p>
	<p><b>2. CO2 Emission Prediction (<a href="#">Github Link</a>)</b></p> <p><b>Objective:</b> The objective of the project is to analyze the influence of various variables on CO2 emissions in vehicles and identify the most significant features affecting CO2 emission.</p> <p><b>Method:</b> Conduct <b>Exploratory Data Analysis</b> (EDA), <b>Correlation Analysis</b> on the provided dataset to Investigate relationships between different vehicle features and CO2 emissions. Utilize <b>statistical techniques</b>, and <b>visualizations</b> (Prediction Error visualization, for a <b>Linear Regression</b> model which helps to understand how well Linear Regression model is performing) to assess the influence of variables.</p> <p><b>Package used :</b> Numpy, Panda, Matplotlib, Seaborn</p> <p><b>Result:</b> The visualization helps to identify patterns in the prediction errors made by Linear Regression model. It's a visual way to assess the model's performance and identify areas where it might be making significant errors or where it's performing well.</p>

## COURSEWORK AND SKILLS

Relevant Courses	Statistical Modelling and For Business Analytics*   Operation Research for Management* Probability & Statistics*   Introduction to Computing*	<i>*ongoing</i>
Technical Skill	Python   SQL   Java*   ML*   Power BI*   MS Excel	

## POSITION OF RESPONSIBILITIES & EXTRA CURRICULAR

- **ACR, IIT Kanpur** -- Coordinate with DoMS alumni and corporate leaders of Tech Industry and Invite them for webinars.
- **LevelIX, MNIT Jaipur** -- Served as the Head of Dance Team of MNIT Jaipur for 2019 - 21.
- **SAE, MNIT Jaipur** -- Devoted as a Member of SAE Society of MNIT Jaipur.

## CERTIFIED COURSES

- **SQL** for Data Science by Coursera.
- Getting Started With **Python** by Coursera.
- **Python for Data Science** by Udemy.
- Python – Data Analytics by Udemy.

## ACHIEVEMENT

- Participated in dynamic round of IASC 2019 at Amrutvahini College of Engineering, Sangamner, Maharashtra.
- Successfully manufactured and Participated in dynamic round of SAE BAJA 2020.
- Got 1st Position in the event Thirak (Group Dance Competition) 2019, Cultural Fest of SKIT Jaipur.
- Got 2<sup>nd</sup> Position in the event RoboCross in Pravah 2019, Technical Fest of SKIT Jaipur.