## **UDAY KUMAR**

M.Tech (Industrial & Management Engineering)

ACADEMIC DETAILS				
YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	PERCENTAGE	
2019-21	M.Tech (Industrial & Management Engineering)	Indian Institute Of Technology, Kanpur	6.85 (CPI)	
2013-17	B.Tech (Mechanical Engineering)	KIIT University, Bhubaneswar	83.1%	
2013	Class XII (ISCE)	AGCS, Kolkata	91.5 %	
2011	Class X (ICSE)	AGCS, Kolkata	88.8 %	
ACADEMIC PROJECTS				
Statistic Modelling Busines Analytic	<ul> <li><u>Medical Insurance Premium Prediction</u> – Predict the cost of medical insurance premium and study the factors affecting it         <ul> <li>Encoded the categorical data using OneHotEncoder and LabelEncoder and avoided dummy variable trap</li> <li>Applied Simple and Multiple Linear Regression technique</li> <li>Incorporated an interaction feature BMI OF SMOKERS and significantly improved in the Adjusted R- Squarevalue to 0.82</li> </ul> </li> <li>Bank Marketing Campaign Analysis – Extract information from existing marketing campaign dataset of a bank and find out customer segment who subscribed to term deposit for developing next marketing campaign</li> </ul>			
	<ul> <li>Checked for multi collinearity of features using VIF (Variance Inflation factor)</li> <li>Logit and Probit models were used for classifying the subscription class</li> <li>Achieved an accuracy of about 76% precision of 0.73 and AUC of ROC curve, 0.85</li> </ul>			
Data Mini	Classify Sentiments from Movie Review-       To classify movie reviews into 5 classes         Mining       Performed Tokenization and created Word Clouds of negative and positive movie reviews         Applied Feature Engineering using Count Vectorizer and TF IDF vectorizer         Implemented Logistic Regression, Random Forest and SGD models		vs	
Applied Machine Learning	<ul> <li>Heart Disease Classification using Supervised L</li> <li>Predict if any person is suffering from</li> <li>Preprocessed by converting some cat</li> <li>Applied Logistic Regression, KNN and respectively</li> </ul>	<ul> <li>Heart Disease Classification using Supervised Learning –</li> <li>Predict if any person is suffering from any heart disease from a dataset having 768 observations and 14 features</li> <li>Preprocessed by converting some categorical variables into dummy variables and scaling all the values</li> <li>Applied Logistic Regression, KNN and Random Forest Classifier to achieve an accuracy of about 86%,88% and 88% respectively</li> </ul>		
Marketir Researcl	<ul> <li>Brand Comparison between PUMA, ADIDAS and NIKE footwear -</li> <li>Research questions – What role does price play while purchasing footwear? Which product is better on build features? Is variety a vital factor while buying footwear? How do discounts offer work in simulatin footwear purchase? What features of the current advertisement campaign are effective? What factors of to switching to another brand?</li> <li>Conducted the online survey and performed various parametric and non parametric tests in SPSS to gat insights</li> </ul>		ict is better on basis of ork in simulating ? What factors contribute ts in SPSS to gather	
COURSEWORK AND SKILLS				
Data Mining and Knowledge Discovery   Operations Research   Probability & Statistics   Marketing Research   Introduction to Computing (JAVA)   Applied Machine Learning   Statistical Modelling for Business Analytics				
Intern at Harvest India Private Limited				
<ul> <li>Building Footprint Regularization -         <ul> <li>Proposed a robust and effective polygon regularization algorithm consisting of a coarse and fine adjustment that transforms the segmented building boundary to structured footprints</li> </ul> </li> <li>Programmable WhatsApp Messaging-         <ul> <li>To send an automatic payment update to the customer on receiving the payment using Twilio API for WhatsApp or SMS on mobile</li> <li>Tested successfully in the sandbox environment</li> </ul> </li> </ul>				
ONLINE LEARNING AND CERTIFICATIONS				
SQL for Data Science by University of California				

## **POSITIONS OF RESPONSIBILITY**

Teaching Assistant,IIT KanpurManaged and provided support to a class of 40 students

## **HOBBIES AND INTERESTS**

Football | Basketball | Badminton | Reading | Travelling