SHUBHAM SAHU

M.Tech (Industrial & Management Engineering)

ACADEMIC DE	TAILS		
YEAR	QUALIFICATION	EDUCATIONAL INSTITUTE	PERCENTAGE
2019-21	M.Tech (Industrial & Management Engineering)	Indian Institute of Technology, Kanpur	7.7* (CPI)
2013-17	B.Tech (Mechanical Engineering)	National Institute of Technology, Uttarakhand	8.33/10
2013	Class XII (U.P. BOARD)	PT. R.P.M. Inter College	92.6%
2011	Class X (U.P. BOARD)	Saraswati Vidya Mandir Inter College	80%
			*upto 2 ^{na} semester
Data Science intern at impliasis Pvt. Ltd., Bangalore (1997)			
• Project 1: Information Extraction of fields (Address, Commencement Date, Currency, Clause-Alteration) from unstructured text documents that showed the agreements between the argenizations using NLP.			
Data cleanir	agreements between the organizations using NEP	noise stonwords using Lambda function	
Sentence se	gmentation, word tokenization and Lemmatization	techniques were done along with data tagging as	0 or 1, performed Exploratory
Data Analysis (EDA) and Feature Engineering (FE)			
Imbalanced dataset is observed which is handled using oversampling technique and TF-IDF feature extraction methodology is used			
 Applied Logistic Regression, Support Vector classifier algorithms and compared these models on common metric 			
 Support Vector Classifier performed better with good recall, precision, f1-score values for each field 			
Regular exp	ressions were used to extract all the fields after class	sifier algorithm	
Project 2 :			(May'20-Jun'20)
Objective: Data Augmentation for NLP using Covid-19 Dataset			
 Developed an algorithm that works on any sentiment analysis dataset with structured data with a word limit of not less than 5 to 1 00 000 words 			
ACADEMIC PROJECTS			
71071021110111	Movie Review Sentiment Analysis		(Oct'19-Nov'19)
	Objective: To predict the sentiment (Negative	, Somewhat Negative, Neutral, Somewhat Positiv	e, Positive) of Rotten Tomatoes
	movie based having 1.5 lakh reviews and 4 attributes (Phrase ID, Sentence ID, Phrase and Sentiment)		
Data Mining	Performed data-cleaning and pre-processing including Exploratory Data Analysis (EDA), Feature Engineering, Data Visualization including word cloud for each continent		
	 Feature Extraction techniques- CountVectorizer, TF-IDF (Term Frequency- Inverse Document Frequency) 		
	Generated classification report & confusion matrix using Logistic Regression, Stochastic Gradient Descent, Random Forest		
	Random Forest with TF-IDF was observed as a	pest model with accuracy of 0.63	
	Prediction Modelling of bank loans using Logistic	Regression using a bank Dataset	(Mar'20-Apr,20)
	Objective: To classify whether a loan applicant organized at a second state	t will be a defaulter at a later stage or not based or	i factors such as credit amount,
Applied	 Applied Applied Applied Provide Class (credit_rating' was unbalanced with 70% of dataset belonging to 'good' class Class 'credit_rating' was unbalanced with 70% of dataset belonging to 'good' class It was observed that offers for Car loan can pick up more customers for loan from the bank Logistic Regression Models were used to classify the credit rating class. Final Model gave an accuracy of about 76% and a 		
Iviachine			
Learning			
precision of 74% and recall of 63%, AUC of ROC curve was 0.87 which shows that model predictive power is good			
	Predicting Prices of a Real Estate using Statistical	Regression Model	(Jan'20-Feb'20)
	 Calculated correlation matrix. Performed Exp. 	loratory data analysis. Heteroskedasticity check w	vith white test . checked for
	Multi-Collinearity test using Variance Inflation Factor (VIF)		
Statistical	 Finalized a multivariate Non-Linear regression model on the basis of Adjusted R square value(0.67), Residual Plots Significant variables were distance from metro station, number of near convenience stores and transaction date 		
Modelling			
for Business	Predicting Income class using Logistic Regression u	using Adult data set	(Mar'20-Apr'20)
 Analytics Data cleaning: Reduced the total no of factors in some columns and handled missing values and discrepancies 			discrepancies
	 Logit and Probit models were used for classifying the income class 		
	• The performance was similar to an accuracy o	f about 82.3% , precision of 62.17% and a recall of	52.8%
	AUC of ROC curve was 0.88		
	Analysis of consumer satisfaction of JIO SIM card	with introduction of IUC	(Feb'20-Mar'20)
	Data was collected with the help of questionn	aire, conducted the online survey & did Analysis in	SPSS
Marketing • Research • Research • Research • Research • Performed Exploratory data Analysis on surveyed data and analysed it using the statistical test in SPSS to get useful in			rnet Speed
			SPSS to get useful insights
	about how much are customers satisfied with	Jio services and decision to charge IUC	
COURSEWORK AND SKILLS			
Relevant	Data Mining and Knowledge Discovery Probability & Statistics Statistical Modelling for Business Analytics Advanced Statistical		
Courses	INTECTIONS FOR BUSINESS ANALYTICS (ONGOING) Applied Machine Learning Marketing Research Introduction to Computing (JAVA) Operations Research		
Skills	Python (NumPy, Pandas, Scikit-Learn, Seaborn, Ma	tplotlib. NLTK) R MS Office (Excel, Word, Powe	rPoint) SQL JAVA
POSITION OF RESPONSEBILITY			
Orientation Team Member (OTM) at Counselling Service. IIT KANPUR (Der'19-Ign'20)			
General Sec	cretary of Mechanical Engineering Department NIT I	JTTARAKHAND	(Apr'15-Mar'16)
ACHIEVEMENTS AND CERTIFICATIONS			
Secured 1et	nrize in cricket in Institute Gathering_SDARKS 2015		
Certification	os: R Programming A-7 (Ildemy) Introduction to Ma	chine Learning (Coursers) Duthon A-7 (Udamu)	
e ceruncanor	IS NEIVERALITIER ALL TOTELLA FUTURE OUT TO MA	CHINC LEATHING (COULSEID) I PVLIION A-7 (UDPMV)	