ABHINAV PRATAP SINGH [] +91 8787297312 | abhinavp23@iitk.ac.in in Abhinav Pratap Abhinav Git

	De	egree/Certificate	Institute	CGPA / %	Year		
MTech (N		ment Sciences)	IIT KANPUR	-	2023 - Preser		
PG-DIPLOMA(IEM)			IIT ISM DHANBAD	7.72/10	2022 -2023		
		rechnology)	UPTTI KANPUR	7.75/10	2018 - 2023		
Higher Secondary Education (CBSE)			K. V. No.1 SPN	84.4%	2017		
Secondary Education (CBSE)			K. V. No.1 SPN	10/10	2015		
		CTS(IIT ISM DHANBAD)					
		se Study Unsupervised Learning	(Clustering)				
Objective	-	mproving Business to Business Sales Us	• • • • • • • • • • • • • • • • • • • •				
-				2010 to 2010 TO	·TI-		
Approach		=	covering insights like a sales decrease fro		11 S		
			ales, and Hand-Tufted commanding the				
		- mp. o / ou an electronic discoprime in optimal name of outside of the control o					
		amples to similar customers.					
Result			ontributing Featuring = AreaFt, Customer	Code, Item_Name,	CountryName.		
•		ent Using JIRA					
Objective	• /	Adding Quality Control tools in Project I	Management Information System				
Approach		Employ latest project management met	•				
		Specifically implement the Agile and Sc					
		ncorporate Quality tools into Project N					
2 //		Jsed JIRA and Analyzed Sprint burndow	vn Chart				
Result		Project Completed in Three Sprint.					
ELF PROJEC							
Laptop Price		ctor Supervised Learning (Regre					
Objective		Created a Machine Learning project foc Enhanced accuracy.	used on predicting laptop prices, utilizing	g various algorithms	s for		
Approach	• F	erformed EDA, Feature Engineering, F	eature Selection, Models Training and E	Best Model Hyperp a	arameter Tunin		
	• (Jsed Training and prediction Pipeline fo	or Automation				
			asso, Elastic Net), Decision Tree Regress	or, Support Vector	Regressor (SVR)		
	• E	explored ensemble methods: RandomF	orestRegressor, AdaBoostRegressor, Gr	adientBoostingReg	ressor		
	ā	andXGboost(XGBRegressor) and Perfor	med Hyperparameter Tuning using Grid	SearchCV.			
		Utilized the Pickle library for both data					
		Deploy Best Model Using Streamlit Libr					
Result		Best Model: RandomForestRegressor w					
		After Hyperparameter Tuning, r2_score					
		urn Prediction Supervised Learni	7				
Objective			ocused on bank customer churn predicti		· · · · · · · · · · · · · · · · · · ·		
Approach		everaged Python and popular libraries and analyze the dataset.	s such as scikit-learn and pandas, Matpl	otlib, seaborn to pr	eprocess		
		-	oyed various algorithms, including Rand	om Forest and Deci	sion Tree		
		Classifier, to build predictive models.	, , , , , , , , , , , , , , , , , , , ,				
		•	uning and cross-validation to enhance m	nodel accuracy.			
	• (Jtilized Pickle Library for Saving Model	and Used Streamlit to Process the mode	el to web page.			
24	• /	in the contract of		Vith Hyperparamet			
resuit	+ Calac	Achieved a accuracy [0.868] precision	[0.82] using Random Forest Classifier V	········ypc.pa.ac.	er tuning.		
	it Jaies	S Prediction Time Series Forecas		vicinity per paramet	er tuning.		
Airline Ticke			ting	Transper paramet	er tuning.		
Airline Ticke Objective	• 7	Frediction Time Series Forecas To forecast future Air Ticket Sales Predi Analyzed the given data to check for sta	ting				
Airline Ticke Objective	• 7	Prediction Time Series Forecas To forecast future Air Ticket Sales Prediction Analyzed the given data to check for state or ordemand forecasting.	ction. ationarity & decomposed it to get level,	trend, seasonality,	and residue		
Airline Ticke Objective	• 1 • /- f	Frediction Time Series Forecas To forecast future Air Ticket Sales Prediction Analyzed the given data to check for state Fordemand forecasting. Performed ADF test for stationarity & u	eting ction. ationarity & decomposed it to get level, sed ARIMA, SARIMA, Prophet and XGBo	trend, seasonality,	and residue re sales.		
Airline Ticke Objective Approach	• 1 • /- f	Frediction Time Series Forecas To forecast future Air Ticket Sales Prediction Analyzed the given data to check for state Fordemand forecasting. Performed ADF test for stationarity & u	ction. ationarity & decomposed it to get level,	trend, seasonality,	and residue re sales.		
Airline Ticke Objective Approach Result	• 1 • // • F	Frediction Time Series Forecas To forecast future Air Ticket Sales Predi Analyzed the given data to check for statordemand forecasting. Performed ADF test for stationarity & u Achieved best accuracy of 19.23% MAP	eting ction. ationarity & decomposed it to get level, sed ARIMA, SARIMA, Prophet and XGBo	trend, seasonality,	and residue re sales.		
Objective Approach Result	• 7 • 4 • F • F	Frediction Time Series Forecas To forecast future Air Ticket Sales Prediction Analyzed the given data to check for state Fordemand forecasting. Performed ADF test for stationarity & u	cting ction. ationarity & decomposed it to get level, sed ARIMA, SARIMA, Prophet and XGBo E in SARIMA & 14.27% MAPE by implem	trend, seasonality,	and residue re sales.		
Airline Ticke Objective Approach Result Data Analysi	• 1 • 4 • F • F • Swig	Frediction Time Series Forecas To forecast future Air Ticket Sales Prediction Analyzed the given data to check for state Fordemand forecasting. Performed ADF test for stationarity & unachieved best accuracy of 19.23% MAP	cting ction. ationarity & decomposed it to get level, sed ARIMA, SARIMA, Prophet and XGBo E in SARIMA & 14.27% MAPE by implem ain insights into their operations.	trend, seasonality,	and residue re sales.		
Airline Ticke Objective Approach Result Data Analysi Objective	• 1	Frediction Time Series Forecas To forecast future Air Ticket Sales Prediction Time Series Forecas To forecast future Air Ticket Sales Prediction Analyzed the given data to check for state or demand forecasting. Performed ADF test for stationarity & unachieved best accuracy of 19.23% MAP To gy Case-Study MySQL Analyzed Swiggy's restaurant data to go dentified TOP city and Name of restaurant	cting ction. ationarity & decomposed it to get level, sed ARIMA, SARIMA, Prophet and XGBo E in SARIMA & 14.27% MAPE by implem ain insights into their operations.	trend, seasonality, posT to predict futuenting the Faceboo	and residue re sales. k's Prophet mo		
Airline Ticke Objective Approach Result Data Analysi Objective	• 1 • 4 • 6 • F • 6 • 6 • 6 • 6 • 6 • 6 • 6 • 6	Frediction Time Series Forecas To forecast future Air Ticket Sales Prediction Time Series Forecas To forecast future Air Ticket Sales Prediction Analyzed the given data to check for state or state	sting ction. ationarity & decomposed it to get level, sed ARIMA, SARIMA, Prophet and XGBo E in SARIMA & 14.27% MAPE by implem ain insights into their operations. Fant Which Contains Word Pizza	trend, seasonality, post to predict futuenting the Faceboo	and residue re sales. k's Prophet mo		

Hypothesis Testing and Predictive Analysis Business Statistics				
objective	•	Performed Hypothesis Testing and Predictive Analysis of city payroll data.		
Approach	•	Utilized hypothesis testing techniques to assess the significance of various factors affecting payroll distribution (Normal Distribution, Student t Distribution, Annova)		
	•	Employed predictive analytics to forecast future payroll expenditures based on historical trends and external economic indicators. (RandomForestRegressor and Linear Regression)		
Result	•	Got RandomForestRegressor as Best model.		
Food Reviews Classification System NLP				
Objective	•	To Classify the Reviews for food using (Natural Language Processing)		
Approach	•	Performed text preprocessing techniques such as Tokenization, Lemmatization, stop words removal and SMOTE for handling class imbalanceness.		
	•	Implemented feature engineering techniques like Bag-of-words , TF-IDF to vectorize the text data.		
	•	Applied models - Logistic Regression, Naïve Bayes Classifier and Random Forest Classifier with GridSearchCV for hyperparameter tuning.		
Result	•	Achieved a best accuracy (0.84), recall (0.85), precision (0.89) and F1 score (0.84) with Logistic Regression model.		

COURSEWORK & SKILLS

- COURSEWORK | Statistical Modelling for Business Analytics | Applied Machine Learning | Probability & Statistics
- SKILLS | Python | ML Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn | MySQL | Excel | PowerBI
- SOFT SKILLS | Decision Making | Adaptability | Team Management | Communication Skills | Leadership | Teamwork
- CERTIFICATIONS | Basics of Machine Learning | SQL for Data Science | Basics Of Python | EXCEL

ACHIEVEMENTS & EXTRACURRICULAR

- Achieved AIR 9 in GATE 2023 (TF).
- Smart India Textile Hackathon 2K19 Winner Organized by Uttar Pradesh Textile Technology Institute Kanpur
- Got Start Up Funding and **Best Idea Nomination** from **SIIC IIT KANPUR** And (REC) For Start Idea of Production of Bioethanol and Biofuel from textile waste.
- Participated in course titled "intellectual property rights under civil trade" organized by ordnance factory, Kanpur.
- Rajya puraskar in scout and guide during schooling