ABHAYRAJ PRATAP SINGH

MTech (Industrial & Management Engineering)

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ACADEMIC DETAILS			
YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	CPI/PERCENTAGE
2020-22	M.Tech (Industrial & Management Engineering)	Indian Institute Of Technology, Kanpur	8.03*
2014-18	B.Tech (Mechanical Engineering)	Gurukul Kangri Vishwavidyalaya	67.57%
2014	Class XII (UP Board)	SSPD SVM IC Kasganj	90%
2012	Class X (UP Board)	SSPD SVM IC Kasganj	91.83%

*upto 2nd sem

ACADEMIC PROJECT	'S	
Statistical Modeling for Business Analytics	 Analysis of Factors affecting car price Carried out multivariate statistical regression analysis to study which variables are significant in predicting the price of a car. Performed EDA, calculated measure of fit, correlation matrix, performed Breusch-Pegan test for heteroskedasticity, checked for multicollinearity using VIF (Variance Inflation factor) and looked for omitted variable bias. Feature elimination is done using RFE (Recursive Feature Elimination) based on p-value and finalized model with R² 0.918, Adjusted R² 0.915. 	
Data Mining and Knowledge Discovery	 Fake Job Posting Prediction Performing EDA, feature engineering, Text Preprocessing(using Tokenization, Lemmatization, TF-IDF vectorizer) on the dataset with 18000 job descriptions out of which 800 are fake. Applied Logistic Regression, KNN, SVC, Random Forest as base models and used GridSearchCV to hypertune the parameters and achieved and achieved AUC-ROC score of 0.5731 and 95% accuracy with Logistic Regression. 	
Marketing Research	 Analysis of Consumer Behavior towards Xiaomi Smartphones Designed cross sectional dynamic survey form using Likert Scaling techniques, data collected using online surveys, focus groups and personal Interview With peoples from different states. Conducted exploratory descriptive research and analysis data using statistical test (t -test) in SPSS with 90% confidence level to test the hypothesis. Using SPSS, essential factors which affect the sale are price, customer service, discount, durability, features etc. 	
SELF PROJECT		
Time Series Analysis	 Forecasting SBI Stock Price with Time Series Analysis Forecasted SBI Stock price with previous 4.5 years data, checked Stationarity, Seasonality, Trend using Dicky-Fuller test, ACF and PACF plot. Applied Time Series models – AR, MA, ARMA, ARIMA, SARIMA, Exponential Smoothing. Predicted stock price for next 45 days (2 months), based on best tuned model ARIMA (3.1.2) with RMSE 41.36. 	
COURSEWORK AND	SKILLS	
Relevant Courses	Statistical Modeling for Business Analytics , Applied Machine Learning, Data Mining and Knowledge Discovery, Marketing Research, Probability & Statistics , Operations Research for Management	
Online Courses	Time Series Analysis in Python 2021 at Udemy, Statistics for Data Science and Business Analysis at Udemy	
Technical Skills	Python(NumPy ,Pandas, Matplotlib, Scikit-learn) SPSS MS Excel	
SUMMER INTERNSHIP (Jun'21-July'2		
Data Science Intern Objective : Product Re • Purchase history • • Python and Mach • Data manipulatio • Two types of mode • Collaborative Filt • RMSE, Recall and ACHIEVEMENTS • Secured 99.63 pe	at Harvesting India Pvt Ltd. commendation System Using Customer Purchase History of 72 days is available that contains 1352 unique orders, 659 unique customers and 159 unique products. ine learning module Turi-create is used for constructing a model. In is done using Pandas and Numpy. del is used for this task: Popularity Model and Collaborative Filtering Model . ering Model is used with Cosine Similarity and with Pearson Similarity. Precision used for model evaluation and model selection. rcentile in GATE (Mechanical Engineering) 2020.	
 Secured 95.12 Pe Managed and pro Captain of depart 	rcentile in JEE MAINS 2014. wided support to 50+ students and administered exams as Teaching Assistant at DIME in IITK. ment cricket team "ROYAL HITTERS" in FET GKV Haridwar	