PRADNESH LACHAKE

Industrial and Management Engineering (M. Tech)

EDUCATION

Year	Degree	Institute	Performance
2019-Present	M. Tech (IME)	Indian Institute of Technology, Kanpur	8.27
2014-18	BE (Mechanical Engineering)	K. K. Wagh College of Engineering, Nasik	75.72 %
2014	HSC, Maharashtra State Board	R. B. N. B. College, Shrirampur	67.23 %
2012	SSC, Maharashtra State Board	K. J. Somaiyya High School, Shrirampur	80.40%

INTERNSHIP

Data Science	e Intern at Harvesting India Private Limited, Chandigarh Apr'20-Jun'20		
Project: Tran	isportation Management of Farmers' Products		
Objective	To determine the transportation cost required for a user to buy goods from a farmer		
	Used Geolocation, Geocoding, and Place APIs to detect user location and its nearest railway stations		
Approach	Performed Web Scraping with Selenium to get the shortest distance from the IR's website		
	Automated the calculations in Python and the code was ready to run in the backend of the company's site		
	• Other tools and libraries used are Zapier, Airtable, Pandas, Airtable Python Wrapper, and Requests		
Result	User could get the cost of buying selected farmer's product automatically after allowing location access		
ACADEMIC	C PROJECTS		
	Travel Insurance Claim Status Prediction May'20-Jun'20		
	• Performed Data Cleaning and EDA , used t-test , and addressed class imbalance by sampling techniques		
	• Developed Probit and Logit Regression models for prediction and used k-fold Cross-Validation		
Statistical	• Logit Regression model was the best predictor with F1-score 0.82 and AUC in ROC plot 0.78		
Modelling fo	Forecasting of Covid19 Cases and Resulting Fatalities Apr'20-May'20		

Business	Forecasting of Covid19 Cases and Resulting Fatalities	Apr'20-May'20	
Analytics	Carried out Panel Data Analysis using Pooled, Fixed Effect, and Random Effect Regression models		
1111119 0100	• Used the LM test, F test, and Hausman test to check the panel effect considering P-value		
	• Selected Time Fixed Effect Regression model for prediction considering the better Adjusted R² value		
	 Predicted number of confirmed cases and fatalities with R² value 0.53 and 0.34 respectively 		
Applied	Online Retail Customers Segmentation	Mar'20-Apr'20	
	• Applied Feature Engineering, removed statistical outliers, and performed Standardization		
	• Used K-Means Clustering with 3 clusters based on Elbow Method and Silhouette Analysis		
	• Used Agglomerative and Divisive Hierarchical Clustering with 3 clusters based on Dendrogram	l	
Machine	Analyzed 3 customer segments on the basis of Recency, Frequency, and Monetary		
Learning	Car Price Prediction	Jan'20-Feb'20	
	• Performed Descriptive Analysis and EDA, calculated Correlation Matrix , and checked Multi-Collinearity		
	• Used RFE and VIF for feature elimination and checked Heteroscedasticity by Breusch-Pagan test		
	• Built Multi-Variate Linear Regression models with the best model having R ² value 0.91		
Data Mining and Knowledge Discovery	Classify Sentiments from Movie Review	Sep'19-Nov'19	
	• Preprocessed the text using Tokenization , Stemming , Lemmatization , and Stop Words removal		
	• Used Count-Vectorizer and TF-IDF for feature extraction and performed Min-Max Scaling		
	• Implemented Naive Bayes, Logistic Regression, Random Forest, SVM, and KNN classifiers		
	 Logistic Regression model on TF-IDF was the best predictor with 64% accuracy 		

COURSEWORK AND SKILLS

Relevant	Probability and Statistics • Introduction to Computing (Java) • Data Mining and Knowledge Discovery • Applied		
Courses	Machine Learning • Statistical Modelling for Business Analytics • Operations Research for Management		
Technical	Python (OOPs, Pandas, NumPy, Matplotlib, Seaborn, SciPy, Scikit-Learn, PyTorch, NLTK, Regex) • SQL • Machine		
Skills	Learning • Deep Learning • Data Structure • R • Java • Matlab • MS Office		
Online	 Completed a Certified Career Path on Data Science from Codecademy It consists of a total of 11 courses and 30+ guided projects on the following areas:		
Certification	Programming = Data Analysis = Data Visualization = Statistics = Machine Learning = NLP		

POSITIONS OF RESPONSIBILITY

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Extra-Curricular

Coordinator at Adventure Sports Club, IIT Kanpur		Jun'20-Present
Organized a mor	th-long online fitness workshop : "A Never-Ending Adventure", for IIT Kanpur campus community	
Secretary at Adventure Sports Club, IIT Kanpur		Sep'19-Jun'20
• Served as a Trek	Leader in the trekking expedition to Sandakphu, Darjeeling, West Bengal in March 2020	
• Carried out 40 days conditioning camp and marathons for enhancing fitness and selection of the trekkers		
• Served as an Assistant Trek Leader in the trekking expedition to Annapurna Base Camp, Nepal in October 2019		
ACHIEVEMENTS		
Co-Curricular	• Received an internship offer from Praktice.AI as a Data Analyst Intern for summer 2020	
	• Secured All India Rank 787 in GATE (ME) 2019 and achieved 99.53 percentile	
	• Secured 1 st rank in the department in the first year of Under Graduation (2014-2015)	
Extra-Curricular	Completed 135 km cycling trip with Bicycling Society, IIT Kanpur in February 2020	
	• Managed a two-day Automobile Overhauling Workshop for enthusiasts at KKWIEER in 2016	

Volunteered a Poster Competition Event at an annual technical festival of KKWIEER in 2016

Taught underprivileged students computer basics and women empowerment in a **5-day camp** in 2016