

EDUCATION			
Degree	Institute / Board	CGPA / Percentage	Year
M.Tech (Department of Management Sciences)	IIT Kanpur	--	2025-27
B.E. (Civil Engineering)	University OF Mumbai,Maharashtra	8.54/10	2018-2022
Higher Secondary Education HSC	Maharashtra State Board	76.77%	2018
Secondary Education SSC	Maharashtra State Board	84.80%	2016

SELF PROJECTS	
Customer Segmentation Using Clustering Machine Learning Clustering	
Objective	To perform Unsupervised Clustering on customer data to identify distinct customer groups, enabling the business to tailor products and marketing strategies to diverse customer needs and behaviors.
Approach	- Conducted data cleaning, preprocessing, and dimensionality reduction using techniques like Principal Component Analysis(PCA). - Applied clustering algorithms such as K-means and Hierarchical Clustering to segment customers. - Evaluated model performance using metrics like silhouette scores and visualized cluster characteristics.
Result	Identified key customer segments, Proposed targeted marketing strategies and product recommendations, optimizing customer engagement and retention.
Air Ticket Fare Estimator, India Machine Learning Regression	
Objective	To predict the flight ticket prices for Indian airlines using Machine Learning Algorithms
Approach	- The dataset comprises 10 independent features, and a dependent variable "Price" with 10682 observations. Data Preprocessing: Conducted outlier treatment, feature engineering and handled missing values. Applied onehot encoding and feature scaling. Models Used: Employed Random Forest Regressor comprehensive performance analysis. Hyperparameter Tuning: Utilize GridSearchCV to optimize model hyperparameters and enhance predictive performance Toolset: Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
Result	Achieved adjusted R2 of 85.2% after Hyperparameter tuning as compared to R2 of 84.5 % using Random Forest Regressor.
NLP: Predicting Research Article Topics through NLP Analysis	
Objective	To predict topics for each article in the test set using abstract and title data for a set of research articles (NLP).
Approach	- Using NLTK, Gensim and scikit-learn, tokenization, stemming, lemmatization, and TfidfVectorizer for text data pre processing. followed by the construction of a Word2Vec model and data preprocessing (removing tags, stopwords etc..) - The code sets up a Logistic regression model with balanced class weights, and utilizes it as the base estimator for a One-vs Rest (OVR) classifier. The classifier is then trained on the feature matrix 'X_train_vec' and target variable 'y_train'.
Result	Accuracy: 0.734 ; Precision: 0.734 ; Recall: 0.734 ; F1-Score: 0.734

SKILLS, COURSEWORK AND CERTIFICATIONS	
Technical Skills	Python ML Libraries: NumPy, Pandas, Matplotlib, Seaborn NLP SQL
Non-Technical Skills	Analytical Thinking Problem Solving Strategic Thinking Decision Making Adaptability Team Management Communication Skills Interpersonal Skills Leadership Team Work Initiative Taking Skill
Academic Courses (ongoing)	Data Mining Probability & Statistics Operations Research for Management Introduction to Computing
Online Certifications	Python Course for Beginners: Scalar

POSITION OF RESPONSIBILITY AND ACHIEVEMENT
Participation in Bridge Design of Engineering Workshop and Paper Presentations Contest (EWPPC).