

Educational Details *till 2nd semester			
Year	Program	Institute	Percentage/ CPI
2021-23	MTech, Industrial and Management Engineering	Indian Institute of Technology, Kanpur	8.24*/10
2014-18	BTech, Mechanical Engineering	DBATU, Lonere	7.28/10
2012	Senior Secondary School Maharashtra State Board	Dnyandeep Vidyamandir, Khed	79.54/100
2010	Secondary School Maharashtra State Board	Christ Jyoti Convent Highschool, Chiplun	88/100
Internship (May'22 -July'22)			
Topic: Vendor Ranking Problem Statement: <u>To rank the business vendors on multiple parameters supplying same product to the company</u> <ul style="list-style-type: none"> Performed a literature survey to identify the different parameters for vendor ratings and methods to rank them using parameters The data consisted of 2053 contracts of the company done with 165 different vendors over a period of 7 years for 81 different unique products Performed EDA on the vendor data to identify which product is required most by the company and the associated suppliers A weighted score for each vendor was calculated using the median price quoted per item, total quantity supplied by the vendor, historical relationship with the vendor, critical product supply and ordering frequency and ranked them based on their scores Topic: Image Classification Problem Statement: <u>To identify bulk images and classify into different buckets of Aadhar card, PAN card and Invoices</u> <ul style="list-style-type: none"> Applied image pre-processing techniques like Flattening and Image Augmentation (rotated images) Used a TensorFlow pretrained CNN model "MobileNet_V2" trained on ImageNet to classify the Images using Transfer Learning Achieved train loss and accuracy of 0.0398 and 99.1% and test loss and accuracy of 0.0611 and 97.78% 			
Work Experience			
Subject Matter Expert (Physics) @ Evelyn Learning Systems (Mar'20 - Nov'20) <ul style="list-style-type: none"> Handled an online portal on which I solved the doubts of students in the subjects of Mechanical Engineering on a real time basis. 			
Academic Course Projects			
Course: Statistical Modelling for Business Analytics (Aug'21-Sept'21) Project: <u>To understand the significant features that affect the demand for the shared bikes</u> Multivariate Linear Regression <ul style="list-style-type: none"> Performed EDA, Min-Max Scaler operation on the numerical variables and one-hot encoding on categorical features Checked for multicollinearity with correlation, VIF (Variance Inflation Factor) and heteroskedasticity of errors using the Breusch Pagan test Feature Elimination was done using Recursive Feature Elimination (RFE) for coarse tuning and fine tuning was performed using p value and VIF Plotted the distribution of residual error terms based on the final model on the test set graphically to validate the Linear Regression assumption Result: Achieved Adj R squared Value of 94.5% on the test set with 13 input features			
Course: Applied Machine Learning (Jan'22-May'22) Project: <u>Amazon Fine Food Reviews Classification</u> Natural Language Processing <ul style="list-style-type: none"> Performed text preprocessing techniques such as Tokenization, Lemmatization, Stopwords removal and SMOTE for handling class imbalance 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 Project: <u>Customer Segmentation for Marketing Strategy</u> Clustering <ul style="list-style-type: none"> Performed RFM (Recency, Frequency and Monetary) analysis on dataset to create new features for making the Clusters Performed data visualization, applied data pre-processing techniques like Inter Quartile Range (IQR) to treat outliers Plotted elbow graph to identify the optimal number of clusters (k) for K-Means Clustering algorithm and validated using Silhouette Algorithm Result: Obtained a Silhouette Score of 0.47 and divided the customers into three clusters for effective marketing strategies based on RFM			
Course: Financial Engineering (Jan'22-May'22) Project: <u>Mean Variance Portfolio Optimization and Allocation of Assets</u> Portfolio Optimization <ul style="list-style-type: none"> Collected data for top 15, NIFTY 50 companies working in different sectors for portfolio diversification Selected 10 stocks for investment from 15, based on their Expected Return, Standard Deviation and Correlation Matrix The minimum variance set, and efficient portfolio frontier for the Markowitz portfolio was plotted using the Excel Solver Final efficient portfolio was selected using the Capital Allocation Line (CAL) that maximizes the Sharpe Ratio and using the One-Fund Theorem An Exponential Utility Function was used to allocate the assets into the risky and risk-free assets considering moderate risk Result: A total of 5 lakh rupees invested as 57.38 % in Risky Assets (Stocks) and the 42.62 % invested in the risk-free assets would give an annual expected return of 24.5 % with a risk (σ) of 9.56% and Sharpe Ratio of 0.13			
Relevant Courses and Skills *In Progress			
Courses	Data Mining and Knowledge Discovery* Operation Research for Management Applied Machine Learning Probability and Statistics Statistical Modelling for Business Analytics Financial Engineering		
Skills	Technical: Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, StatsModel, NLTK) SQL Microsoft Excel Power BI		
Position of Responsibility			
PG Senator Y21, Student's Senate, IIT Kanpur (July'22 - Present) <ul style="list-style-type: none"> Acting as the voice of M.Tech Y21 students at the Student's Senate and to convey the Senate decisions to the students. Creating awareness among PG students to increase their participation in workshops, events conducted by various clubs. Teaching Assistant for the course MBA663A (Total Quality Management) (July'22 - Present) <ul style="list-style-type: none"> Handling Course logistics and contributing for conduction of tests, assignments, and quiz procedures for the course. Secretary, Mechanical Engineering Students Association (MESA), DBATU Lonere (June'16 - June'17) <ul style="list-style-type: none"> Acted as the convener of various activities such as fresher's, farewell, etc. of the Mechanical Engineering Department. 			
Achievement and Extracurricular activities			
<ul style="list-style-type: none"> Achieved AIR of 473 in GATE Examination for Mechanical Engineering conducted by IIT Bombay in 2021 Participated in the ESI competition for which we designed and fabricated an all-terrain vehicle for an offroad racing competition 			