

Education			
Degree/Certificate	Institute	CPI/%	Year
M. Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2024 - Present
B. Tech (Mechanical Engineering)	MIT Academy of Engineering, Pune	9.14	2019 -23
Higher Secondary Education	Satyam International School, Patna	69%	2018
Secondary Education	Loyola High School, Patna	7.6	2016
Linear Regression (Self Project)			
Objective	To determine whether the company's efforts should be directed towards enhancing the mobile app experience or the website to optimise revenue generation.		
Approach	<ul style="list-style-type: none"> Utilized distplot visualisation, assessed multicollinearity through correlation examination, and verified heteroskedasticity using residual plots. Conducted data pre-processing involving null value handling and outlier treatment through the winsorisation technique. Executed feature selection by considering p-values, employing tools such as Statsmodels and Scikit-learn for constructing predictive models. 		
Result	<ul style="list-style-type: none"> User engagement with the app significantly influences revenue, surpassing the impact of website usage. Attained an adjusted R2 of 90% using the conclusive OLS model, featuring a mere nine input variables, all with a confident 95% level of significance. 		
Link	Linear Regression		
Logistic Regression (Self Project)			
Objective	To develop a predictive model that determines whether an internet user will click on an advertisement on a company website using the user's features.		
Approach	<ul style="list-style-type: none"> Visualized distribution plots and investigated multicollinearity through correlation matrix analysis. Applied one-hot encoding and conducted outlier removal using the interquartile range method. Conducted feature selection based on p-values and used Statsmodels and Scikit-learn to construct predictive models. 		
Result	<ul style="list-style-type: none"> Achieved Test accuracy of 91% and Test F-1 score of 91% 		
Link	Logistic Regression		
Coursework & Skills (*in progress)			
Relevant Courses	Probability & Statistics* Statistical Modelling for Business Analytics* Introduction to Computing (Python)* Operations Research for Management*		
Online Courses	<ul style="list-style-type: none"> Python (Programming for everybody, Getting started with python - Coursera) Python Data Structures (Coursera) MATLAB (Introduction to MATLAB with MATLAB Onramp) Object Oriented Programming using Python (Infosys Springboard) IUCEE AI for all (IUCEE foundation) Automation in Manufacturing (NPTEL Online Certification) Learning Physics Through Simple Experiments (MOOC IIT Kanpur) 		
Skills	Python ML Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, Statsmodels Excel MATLAB SQL		
Soft Skills	Team Management Leadership Decision Making Communication Skills Adaptability Team Work		
Achievements & Extracurriculars			
<ul style="list-style-type: none"> Secured GATE RANK of 72 in Production and Industrial Engineering (2024) Secured GATE RANK of 1613 in Mechanical Engineering (2024) Under the top 10 Rank in first year of B Tech Secured overall 3rd Rank in second year of B Tech Participated in SAE Aero Design Challenge 2021 Played Inter-Departmental Table Tennis at college level Participated in Singing at annual college event (Nakshatra) 			