

EDUCATION				
Degree/Certificate		Institute	CGPA / %	Year
M. Tech (Department of Management Sciences)		Indian Institute of Technology, Kanpur		2025 - Present
B. Tech (Textile Technology)		NIT-Jalandhar	8.14	2019 - 2023
Higher Secondary Education (CBSE)		Rayat International School, Punjab	84.8%	2019
Secondary Education (CBSE)		Rayat International School, Punjab	10	2017
PROJECTS				
Marketing strategy to predict the most probable buyers from loyalty program participants ML Classification (GitHub Link) (Self Project)				
Objective	- Developing a predictive model using data analytics and machine learning to identify the most probable buyers for the new organic product line - Enabling organisation to target a specific set of customers with personalised marketing messages and other sales techniques, thereby optimising marketing strategy and increasing product penetration			
Approach	Extracted and cleaned customer data using spreadsheets and MySQL; handled nulls, missing data and encoded categorical features for ML use. - Built and validated a logistic regression model (Scikit-learn) to classify buying behaviour; used 80:20 train-test split Applied the trained model to predict purchase probabilities for the remaining customer base and ranked them based on buying likelihood. Shortlisted high-probability customers (> 65%) for focused marketing, enabling efficient targeting and resource optimisation. Toolset: Spreadsheets, MySQL, Python (NumPy and Pandas), Machine learning (Scikit Learn, Joblib)			
Result	- The machine learning model had an accuracy score of 81%. - Compared three scenarios: (i) no model-based targeting, (ii) top 40% predicted buyers, and (iii) top 30% predicted buyers. 3rd scenario resulted in the highest estimated profit, demonstrating the effectiveness of model-based selective targeting.			
CO ₂ Emission Prediction Machine Learning Regression (GitHub Link) (Self Project)				
Objective	The objective of the project is to analyse the influence of various variables on CO₂ emissions in vehicles and identify the most significant features affecting CO₂ emissions			
Approach	- Conduct Exploratory Data Analysis (EDA), Correlation Analysis on the provided dataset to investigate relationships between different vehicle features and CO₂ emissions. - Utilise statistical techniques and visualisations (Prediction Error visualisation, for a Linear Regression model, which helps to understand how well Linear Regression model is performing) to assess the influence of variables. Toolset: NumPy, Pandas, Matplotlib, Seaborn			
Result	- Performance achieved with Linear Regression: R² Score 0.874, RMSE 20.516 - The visualization helps to identify patterns in the prediction errors made by Linear Regression model.			
Credit Card Fraud Detection Machine Learning Classification (GitHub Link) (Self Project)				
Objective	To classify whether a given transaction is fraudulent or not using machine learning classification algorithms.			
Approach	- Package used (Pandas, Numpy, Matplotlib, Scikit-learn). - Used under-sampling & over-sampling (SMOTE technique) method to deal with imbalanced dataset. - Used classification algorithms: Logistic Regression, KNN for prediction.			
Result	Various classification matrix were used to compare the models. Logistic Regression performed the best			
WORK EXPERIENCE				
❖ Reliance Industries Limited (Aug 2023 - July 2025)				
Executive Manager: Sustainability and Circular Economy (Aug 2024 - July 2025)				
- Managed RIL's EcoVadis sustainability assessment, including questionnaire coordination, stakeholder review, scorecard tracking, score improvement initiatives, and monitoring value chain partners - Coordinated with cross-functional teams to update and maintain the company's quarterly BRSR report - Coordinated and facilitated the acquisition of key sustainability certifications for the company's recycling initiatives - Collaborated on the Life Cycle Assessment study for RIL's chemically recycled circular polymers				
Graduate Engineer Trainee: Business Development (Aug 2023 - Aug 2024)				
- Part of the Graphene team, was involved in the development of a new product line – HEXaREL print - Worked on optimising variables and parameters involved in the printing process to make the product production process scalable and commercially viable Conducted successful trials, with product showcasing various required properties like electrical and thermal conductivity				
COURSEWORK & SKILLS *in progress				
Relevant Courses	Introduction to Computing (Python)* Probability & Statistics* Operations Research for Management* Statistical Modelling for Business Analytics*			
Skills	Python ML Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn MySQL MS Excel			
Certifications	PCAP: Programming Essentials in Python (Python Institute) Python with Data Science and Machine Learning (NIELIT Chandigarh) Google Data Analytics (Coursera)			
ACHIEVEMENTS & EXTRACURRICULAR				
- Secured AIR 48 in GATE '25 (Textile Engineering and Fibre Science) - Secured Runner-up position at the State level in Bharat Ko Jano, a national-level quiz competition - Volunteered with PRAYAS, a student-led initiative to educate underprivileged children - Represented school and district in the state-level table tennis championship (Under-19 category)				