

EDUCATION

Year	Qualification	Educational Institute	Score
2023 - Present	MTech DoMS	Indian Institute of Technology, Kanpur	-
2017-2022	BE (Mechanical Engineering)	Institute of Engineering, Pulchowk Campus, Nepal	7.57
2017	HSEB Nepal	Prasadi Academy, Kathmandu	84.4%
2015	SLC Nepal	Nightingale Higher Secondary School	86%

Work Experience

Mechanical Engineer – TD Energy and Multi-Constructions, Lalitpur, Nepal	<i>Aug22 – Jun23</i>
<ul style="list-style-type: none"> Performed data collection, and data analysis, and prepared a detailed report incorporating the findings of the project. Collaborated with team members for the evaluation of literary works affiliated with energy-based studies. 	
Projects completed:	
<ul style="list-style-type: none"> Design, fabrication, and installation of Screw press dewatering machine Study of greenhouse gasses emissions from vehicles running on petroleum products and formulation of a master plan of EV of Kathmandu Valley Present status and future plan of clean cooking technologies in Kathmandu Valley Prepared materials for Energy Audit trainings 	

Key Projects**Predicting National Life Expectancy | Self project| Regression**

Objective: To predict national life expectancy using regression models.

- Package used (**Pandas, Numpy, Matplotlib**)
- Applied **missing value treatment (mean, median)**, performed **EDA** techniques such as **outlier detection**.
- Performed **feature engineering** and **transformation** techniques such as **one-hot encoding** and **standard scaling**.
- Identified attributes with high **correlation factors** and dropped one among those.
- Applied model – **Linear Regression**.

Result: **R²** value of 0.94 and **Mean Square Error** of 3.49.

Credit Card Fraud Detection | Self project | Classification

Objective: To classify whether a given transaction is fraudulent or not using machine learning classification algorithms.

- Package used (**Pandas, Numpy, Matplotlib**)
- Used **under-sampling & over-sampling (SMOTE technique)** method to deal with **imbalanced dataset**.
- Used classification algorithms: **Logistic Regression, KNN** for prediction.

Result: Various **classification metrics** were used to compare the models. Logistic Regression performed the best.

Relevant Courses and Skills***Ongoing**

Courses	Statistical Modeling for Business Analytics* Probability & Statistics* Operations Research for Management* Introduction to Computing*
Skills	Basics Python SQL* Machine Learning* Data Analysis*

Position of Responsibility and Extracurricular

- Alumni & Corporate Relation team, IIT Kanpur (DoMS)**
Member of the Alumni and Corporations Relations team where main duty is to keep in touch with DoMS alumni and corporate leaders.
- Teaching assistant, IOE Pulchowk Campus, Nepal**
Assisted the professor with preparing course content and assignment grading for **Data Analysis** and **Operations Management** course.
- Sub-Coordinator, BE Design Competition, MechTRIX, IOE Pulchowk Campus, Nepal**
Planning and Managing Design Competition. Major responsibilities included Outreach, Finance and Human Resource Management.