

EDUCATION

Degree/Certificate	Institute	CPI/%	Year
M. Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2025-Present
B. Tech (Mechanical Engineering)	Jalpaiguri Government Engineering College, Jalpaiguri	8.82 DGPA	2019-2023
Higher Secondary Education	Jawahar Navodaya Vidyalaya, Jamtara	87 %	2018
Secondary Education	School of Competition, Chirkunda, Dhanbad	10 CGPA	2016

KEY PROJECTS

Laptop Price Prediction (Self Project)

Objective	Developed a predictive model to estimate laptop prices using regression technique.
Approach	- Conducted Exploratory Data Analysis (EDA) and Feature Engineering to enhance model input quality. - Implemented and evaluated multiple regression models using scikit-learn pipelines. - Visualized Data Relationships and communicated actionable insights on feature impacts.
Result	Achieved an R2 score of 0.807 and MAE of 0.210 with Linear Regression.

Breast Cancer Prediction (Self Project)

Objective	To develop a machine learning model for predicting breast cancer diagnosis (benign or malignant) based on clinical features.
Approach	- Cleaned the dataset by dropping irrelevant columns and handling missing values, then converted categorical target labels to binary - For Model Training, used the XGBoost classifier to train on scaled features, splitting the data into training and test sets. - Evaluated the model using classification metrics, feature importance, confusion matrix, and ROC curve for comprehensive performance analysis.
Result	The XGBoost model achieved high accuracy in distinguishing between benign and malignant breast tumors .

WORK EXPERIENCE

GET/Senior Engineer and Assistant Manager, Adani Power

September 2023 – July 2025

Job Profile	Worked as a Mechanical Engineer responsible for maintenance of Boiler area of 2*800 MW Ultra-Supercritical Thermal Power Plant. - Familiarized extensively with Main Plant Operations, Mechanical Maintenance, Coal Handling, Ash Handling, Chemistry, Quality Assurance, Inventory Management and Data Analytics. Proficient in fundamentals of BTG (Boiler, Turbine, and Generator), and BOP (Balance of Plant). - Conduct regular inspections and maintenance of Boiler and its auxiliaries to prevent downtime and ensure minimal disruption in operational activities. - Fulfill unplanned and breakdown maintenance orders to assist the Operation Department, and perform Predictive and Preventive Maintenance of critical equipment for maximum availability. - Proficient in SAP PM Module and Permit-to-Work (PTW) System, Maintaining 5S standards at workplace. - Manpower Management and Team Management.
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COURSEWORK AND SKILLS

Relevant Courses	Probability & Statistics Statistical Modelling for Business Analytics Introduction to Computing Operations Research for Management
Online Courses	The Complete Python Pro Bootcamp: Udemy Python for Data science, Numpy and Pandas : Udemy
Skills	Python ML Libraries: NumPy, Pandas, Matplotlib, Scikit-learn EXCEL SQL
Soft Skills	Team Management Leadership Decision Making Communication Skills Adaptability Teamwork

ACHIEVEMENTS AND EXTRACURRICULAR

*Secured AIR 352 in GATE 2025 XE paper and AIR 2273 in ME paper conducted by IIT Roorkee.

*Organised Technical and Management fest (SRISTI) at Jalpaiguri Govt. Engg. College, Jalpaiguri.

*Completed 3 weeks vocational training at diesel loco shed, Andal (Eastern Railway), gaining practical experience in maintenance.

*Completed 1 month vocational training at SAIL, Bokaro.