KANDARP DAVE

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EDUCATION

Degree	Institute / Board	CGPA / Percentage	Year
M.Tech. (Department of Management Sciences)	IIT Kanpur	-	2024-26 (Expected)
B.E. (Mechanical Engineering)	MSU Baroda	9.28/10	2020-2024
Senior Secondary	GSHSEB	73.54%	2020
Secondary	GSHSEB	92.33%	2018

SELF PROJECTS

Laptop Price Prediction

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

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, demonstrating its effectiveness for this classification task.

House Price Prediction

Objective	To predict house price by using appropriate features of house provided in dataset.
Approach	• Performed Data cleaning and preprocessing by handling missing values, handling outliers, feature encoding. • Done Exploratory data analysis (descriptive statistics, Univariate analysis, bivariate analysis) • Performed feature engineering by creating new features using available feature. • Built machine learning models like Linear regression and Random Forest with hyperparameter tuning.
Result	Used **RMSE** as evaluation matrix and achieved **0.21188** using Linear regression and **0.16259** using Random Forest.

SKILLS, COURSEWORK AND CERTIFICATIONS

Technical Skills	**Python** | **ML Libraries**: NumPy, Pandas**,** Matplotlib, Seaborn, Scikitlearn **| SQL**
Non-Technical Skills	Analytical Thinking | Problem Solving | Strategic Thinking | Decision Making | Adaptability | Team Management | Communication Skills | Interpersonal Skills | Leadership | Team Work | Initiative Taking Skill
Academic Courses (ongoing)	**Statistical Modelling For Business Analytics | Probability & Statistics | Operations Research for Management |Introduction to Computing |**
Online Certifications	Python Course for Beginners: Scalar Programming in Python: Nityam Education Society Python for Data science, Numpy and Pandas : Udemy

POSITION OF RESPONSIBILITY AND ACHIEVEMENT

Received **Topper's Award** in **B.Tech**. 3rd year for my excellence in Academics.

Secured **AIR 603** with **706 Gate score** in Mechanical Engineering paper. Secured **AIR 347** with **611 Gate score** in Engineering Sciences paper.

Media and Culture Coordinator, DoMS MTech IITK*   ***August 2024 -** Present
Organizing Team Member (OT) in Footprints 2021 , a National Level Technical Event.

Internship: During my one month internship at **Elecon Engineering Company Ltd. - Gear Division**, I developed a strong understanding of gear manufacturing processes and industry standards.   **(May 2023 - June2023)**