

# Dataset 3 Description

Group 3 - BSCS 4-2 (CS Elective 4)

April 5, 2025

## Dataset Name

Laptop Price Dataset April 2024

## Dataset Source

The dataset is sourced from Kaggle and is available at: <https://www.kaggle.com/datasets/keremabdullahoglu/laptop-price-dataset-april-2024/data>.

## Description of the Dataset

This dataset is taken from eBay using a web API. It consists of listings for both new and second-hand (refurbished or pre-owned) laptops. The dataset contains 3,981 rows and 10 columns, providing a diverse range of laptop specifications, pricing, and conditions.

## Column Descriptions

The dataset consists of the following key attributes:

- **Brand** (string) – Laptop manufacturer (e.g., Dell, HP, Apple).
- **Product\_Description** (string) – Details of the product listing, including model and features.
- **Screen\_Size** (float) – Screen size in inches.
- **RAM** (integer) – Amount of RAM (GB).
- **Processor** (string) – Type and model of the processor (e.g., Intel i7, Ryzen 5).
- **GPU** (string) – Graphics processing unit included in the laptop.
- **GPU\_Type** (string) – Type of GPU (e.g., integrated, dedicated).
- **Resolution** (string) – Screen resolution (e.g., 1920x1080).
- **Condition** (string) – Whether the laptop is new, refurbished, or used.
- **Price** (float) – Price in USD.

## Potential Research or Studies

- **Price Optimization & Market Analysis** – Predict laptop pricing using machine learning based on specifications and condition.
- **Consumer Preferences & Buying Behavior** – Identify trends in laptop purchases by analyzing brand popularity and key features.
- **E-commerce Insights & Feature Importance in Pricing** – Compare the pricing of refurbished vs. new laptops with their demand trends and investigate which factors (e.g., RAM, GPU, brand) influence laptop prices the most.