## Artificial Intelligence and Machine Learning

Project Report

Semester-IV (Batch-2022)

**CASESTUDY ABOUT AMAZON E-PURCHASES**

**Link:-**https:<//drive.google.com/file/d/1jiFPihZGY6IZ_Shvw9YH1oCWjjWjr8tQ/view?usp=sharing>

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Description automatically generated with low confidence

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**Description About the case study**

# Display Top 10 rows

# Display Last 10 rows

# Check datatype of Each coloum

# how many rows and coloumns in our dataset

# Highest and lowest purchase price in dataset

# Average purchase price

# how many people have French 'fr' as their Language

# job title contains engineer

# find email of the person with the following IP address: 132.207.160.22

# how many people have Mastercard as their Credit Card Provider and Made A purchase above 50?

# Find Email of the person with the following Credit Card number:4105595335494659

# how Many people Purchase During The Am and How Many People Purchase During Pm?

# How Many People Have A credit Card That Expries In 2020

# Top 5 Most Popular EMail providers(eg Gmail.com, Yahoo.com,etc.)

**Library:-**

* library used in this case study is pandas

**Method:-**

**read\_csv():**

**Description: Reads a CSV file and converts it into a data frame.**

**tail():**

**Description: Displays the last few rows of the data frame.**

**head():**

**Description: Displays the first few rows of the data frame.**

**shape():**

**Description: Returns the shape (number of rows, number of columns) of the data frame.**

**info():**

**Description: Provides basic information about the data frame, such as column types and missing values.**

**isnull():**

**Description: Returns True/False for each value in the data frame, indicating whether the value is missing (NaN) or not.**

**sum():**

**Description: Calculates the sum of values in each column of the data frame.**

**drop():**

**Description: Removes specific rows or columns from the data frame.**

**value\_counts():**

**Description: Counts the unique values in a specific column of the data frame.**

**nunique():**

**Description: Returns the count of unique values in a specific column of the data frame.**

**contains():**

**Description: Checks if a specified substring or value is present in a column of the data frame.**

**max():**

**Description: Returns the maximum value in a column of the data frame.**

**min():**

**Description: Returns the minimum value in a column of the data frame.**

**mean():**

**Description: Calculates the mean (average) value of a column in the data frame.**

**len():**