**Title : E-commerce Return Rate Reduction Analysis**

**Objective: Identify why customers return products and how return rates vary by category, geography, and marketing channel.**

**Tools:**

* **Python**
* **Power BI**
* **SQL**

**Step 1: Install tools required**

* **Install Python**
* **Install Power BI Desktop**
* **Install MySQL**

**Step 2: Load data into SQL**

* **Use a tool MySQL Workbench**
* **Clean using SQL**
* **Export this to a CSV for use in Python**

**Step 3: Python Code (using Pandas) (Exploratory Analysis)**

* **Load Data**
* **Calculate Return Rates**

**Step 4 : Predict Return Probability (Logistic Regression)**

* **Feature Selection**
* **Preprocess (Convert categorical to numbers)**
* **Train the model**
* **Save high-risk products**

**Step 5: Create a Power BI Dashboard**

* **Import data csv files into Power BI**
* **Create visualizations (Bar chart, Map, Table)**
* **Add filters and slicers:**
* **Enable drill-through:**

**Step 6: Deliverables**

* **Python codebase**
* **Power BI Dashboard**
* **CSV of high-risk products**