# Retail Sales Data Cleaning — Azure DevOps CI/CD Pipeline Setup

## **Part 1 - Project Overview**

This project demonstrates how to set up an **Azure DevOps pipeline** to automate the following:

- Read the **raw sales data** (raw\_sales\_data.csv)
- Clean the data using data processing.py
- Generate clean sales data.csv
- Publish both CSVs as Azure DevOps artifacts

#### Part 2 -Folder Structure

## Part 3 - Step-by-Step Azure DevOps Setup

# Step 1 — Create a New Project

- 1. Go to https://dev.azure.com
- 2. Click New Project
- 3. Enter:
  - o Project Name: RetailSalesPipeline
  - o Visibility: Private or Public

#### 4. Click Create

## Step 2 - Push Code to Azure Repo

git init
git remote add origin <your\_repo\_url>
git add .
git commit -m "Added data cleaning pipeline project"
git push origin main

# **Step 3 - Create Pipeline**

- 1. Navigate to **Pipelines** → **Create Pipeline**
- 2. Select Azure Repos Git
- 3. Choose your repository
- 4. Select Existing Azure Pipelines YAML file
- 5. Choose azure-pipelines.yml
- 6. Click Run

# **Step 4 - View Pipeline Run**

- Go to Pipelines → Runs
- see:
  - Python installed
  - o Dependencies installed
  - Data cleaned
  - o Artifacts published

## **Step 5 - Download CSV Artifacts**

- Go to Pipelines  $\rightarrow$  Last Successful Run  $\rightarrow$  Artifacts  $\rightarrow$  SalesData
- Download raw sales data.csv & clean sales data.csv

# **Final Outcome**

After successful pipeline execution:

• Input: raw\_sales\_data.csv

• Output: clean\_sales\_data.csv

• Both files stored as **Azure artifacts** automatically.