

## Week 5: Automation using Azure DevOps

**Tools:** Azure DevOps

**Capstone Tasks:**

- Build an Azure DevOps pipeline to run the full Python analysis
- Log delay summary to a file
- Send a basic success notification (print/log)

**Deliverables:**

- Azure DevOps YAML pipeline
- Output log file

### Step 1: Clone Azure DevOps Repository

1. Open your Azure DevOps project (e.g., Customer Order Insights)
2. Navigate to **Repos > Clone**
3. Use SSH or HTTPS URL.

Example:

```
git clone
https://dev.azure.com/simantinip04/CustomerOrderInsights/_git/CustomerOrderInsigh
ts
cd CustomerOrderInsights
```

### Step 2: Add Week 5 Files

In the cloned repo, create the following:

**etl\_pipeline.py**

- Loads cleaned\_orders.csv
- Calculates delays
- Logs top 5 delayed customers to delay\_summary\_log.txt
- Prints a success message

**azure-pipelines.yml**

- Installs Python + dependencies
- Runs etl\_pipeline.py

### Step 3: Git Setup & Push Code

```
git config --global user.name "Simantini Patil"  
git config --global user.email "simantini.p04@gmail.com"  
git add .  
git commit -m "Week 5: ETL script and DevOps pipeline"  
git push -u origin main
```

### Step 4: Create & Run Pipeline

1. Go to **Pipelines** → **New Pipeline**
2. Choose **Azure Repos Git**
3. Select your repo
4. Choose **YAML** and select azure-pipelines.yml
5. Click **Run**

### Step 5: View Output

- Check **console output** for print/log statements
- Download the delay\_summary\_log.txt file for submission

### Result:

Python script executed successfully

Delay summary logged

Log file saved

Success message printed

Azure pipeline runs successfully