# Week 5 - Capstone: Azure DevOps Pipeline for Supply Chain Script

# **Objective**

Create a simple Azure DevOps pipeline that:

- Installs dependencies
- Executes a Python script
- Logs results and marks completion

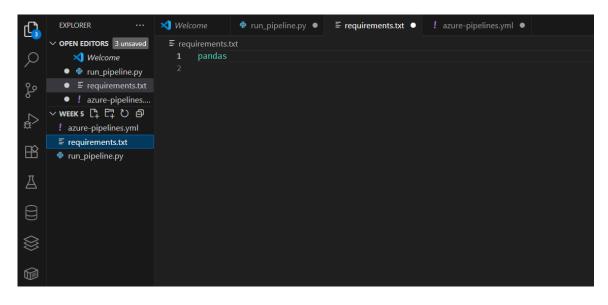
#### **Tools**

- Azure DevOps
- Git
- Python

## 1. Project Setup

Ensure your local folder contains the following:

- requirements.txt



- run\_pipeline.py

- YAML Pipeline File (azure-pipelines.yml)

```
EXPLORER
                         ⋈ Welcome
                                        run_pipeline.py
                                                          ! azure-pipelines.yml •

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                           ! azure-pipelines.yml
         × Welcome
       run_pipeline.py

≡ requirements.txt

       ! azure-pipelines....
    ∨ WEEK 5 🖺 🛱 ひ 🗗
     ! azure-pipelines.yml
                                 - script:
      pip install -r requirements.txt
晗
     run_pipeline.py
                                     python run_pipeline.py
                                  displayName: 'Run Supply Chain Script'
Д
```

#### 5. Git Push Instructions

cd to your project folder

Initialize and push:

```
git init
```

git remote add origin <git@ssh.dev.azure.com:v3/lavanyajeyaram06/Week%205-%20Supply%20chain/Week%205-%20Supply%20chain>

git add.

git commit -m "Add pipeline and script"

git push -u origin main

```
C:\Users\Lavi>cd C:\Users\Lavi\Desktop\Capstone_projects\Supply_Chain\Week 5
C:\Users\Lavi\Desktop\Capstone_projects\Supply_Chain\Week 5>git init
Initialized empty Git repository in C:\Users/Lavi/Desktop/Capstone_projects/Supply_Chain\Week 5/.git/
C:\Users\Lavi\Desktop\Capstone_projects\Supply_Chain\Week 5>git remote add origin git@ssh.dev.azure.com:v3/lavanyajeyara
m06/Week%205-%20Supply%20chain/Week%205-%20Supply%20chain
C:\Users\Lavi\Desktop\Capstone_projects\Supply_Chain\Week 5>git add .
C:\Users\Lavi\Desktop\Capstone_projects\Supply_Chain\Week 5>git commit -m " Added pipeline and script for supply chain

[master (root-commit) 132d1le]  Added pipeline and script for supply chain
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 1006444 azure-pipelines.yml
create mode 1006444 run_pipeline.yy

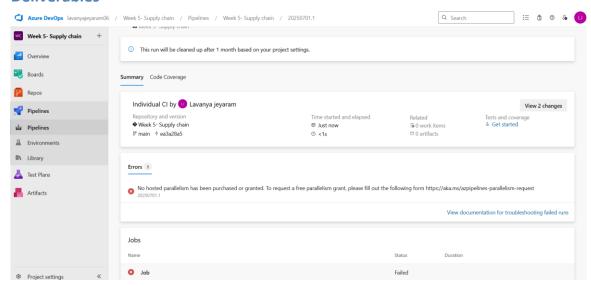
C:\Users\Lavi\Desktop\Capstone_projects\Supply_Chain\Week 5>git branch -m master main

C:\Users\Lavi\Desktop\Capstone_projects\Supply_Chain\Week 5>git push -u origin main
Enumerating objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/2), done.
Writing objects: 100% (3/3), 291 bytes | 97.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Validating commits... (1/1) done (0 ms)
```

### 6. Run the Pipeline

- 1. Go to Azure DevOps > Pipelines > New Pipeline
- 2. Choose Azure Repos Git
- 3. Select your repo
- 4. Use existing azure-pipelines.yml
- 5. Click Run

#### **Deliverables**



- Azure DevOps YAML pipeline file
- Execution log or console output