

## **Week 5 - Capstone: Azure DevOps Pipeline for Python Analysis:**

### **Objective:**

Set up a full CI pipeline using Azure DevOps that:

- Runs a Python analysis script
- Logs delay summary to a file
- Publishes the log file as an artifact
- Notifies via console log

### **Tools:**

- Azure DevOps
- Git
- Python

### **1. Clone the Empty Azure Repo via SSH:**

1. Go to: <https://dev.azure.com/yourName>
2. Open project: Week 5 Customer Insights
3. SSH Link: `git@ssh.dev.azure.com:v3/---your SSH---`
4. In terminal:  
  
    `cd ~`  
  
    `git clone git@ssh.dev.azure.com:v3/---Your git link`

## 2. Add Your Week 5 Files:

- Create analysis.py and azure-pipelines.yml
- analysis.py logs delay summary to logs/delay\_summary.log.
- azure-pipelines.yml runs the script and publishes the log file as an artifact.

## 3. Push Your Code to Azure Repo:

- cd to the repo folder
- Set Git config:  
git config --global user.name "your name"  
git config --global user.email "[your gmail@gmail.com](mailto:your_gmail@gmail.com)"
- Rename branch:  
git branch -m master main
- Push code:  
git push -u origin main

## 4. Create and Run Pipeline:

- In Azure DevOps:
- Go to Pipelines > New Pipeline
- Choose Azure Repos Git > Select your repo
- Use existing YAML > Click Run

## 5. View Output:

- View console logs and artifacts
- Download delay\_summary.log from published artifacts

## Result:

- Pipeline completes successfully:

- Python logs are generated

- delay\_summary.log is published