

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/lavanyajeyaram06>
2. Open project: Week 5 Customer Insights
3. SSH Link:

`git@ssh.dev.azure.com:v3/lavanyajeyaram06/Week%205-Customer%20Insights/Week%205-Customer%20Insights`

4. In terminal:

```
cd ~
```

```
git clone git@ssh.dev.azure.com:v3/lavanyajeyaram06/Week%205-Customer%20Insights/Week%205-Customer%20Insights
```

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 "Lavanya Jeyaram"
git config --global user.email "lavanyajeyaram06@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