**End-to-End ML Project with CI/CD Pipeline**

Pipelines using 🡪 Github Actions

Concepts that are covered:

1. Data Ingestion
2. Data transformation
3. Data Evaluation
4. Model training
5. Model Evaluation
6. Model Deployment

Deployment on AWS S3.

Day 1: 25-07-2024 14:19

Agenda:

1. Set up the GitHub {Repository}

Set up an environment

Setup.py

Requirements.txt

Learnings:

1. How to change the terminal path from c to d:

**Cd /d [path]**

Syntax to change the working directory to another drive (for example from drive C: to drive D:).--> cd /d [path] 🡪 cd /d D:\project-datascience

1. Setting up environment
2. Using pip install virtualenv 🡪 virtualenv [directory\_name]
3. Using python –m venv [directory\_name]
4. Creating a GitHub repo initializing it to the project and trying out Push, pull. Created .gitignore file to ignore venv, libs, and extra.
5. Created setup.py 🡪 this helps in wrapping up our application as a package, later anyone can use it by the pip install command. We can also deploy it in **PYPI PYTHON PAGE**