Steps

1. Set up virtual environment
2. Set up AWS
3. Understanding the source data using Jupyter Notebook
4. Quick and dirty solution using Jupyter Notebook
5. Functional vs. Object Oriented Programming (OOP)
6. Importance of testing
7. Functional approach with the quick and dirty solution
8. OOP Design principles and further requirements – Configuration, Logging, Meta Data
9. OOP Code Design
10. Set up development environment (Github, Python project, VSC)
11. Implement class frame
12. Implement Logging
13. Coding (Clean Code, functionality, linting, unit tests, integration tests)
14. Set up dependency management with pipenv
15. Performance tuning with profiling and timing
16. Create Dockerfile + push docker image to Docker Hub
17. Run application in production using a Minikube and Argo Workflows