Mikelsagardia.io

```
main.py
      # Load config.yaml with hydra
      @hydra.main(config_name='config')
      def go(config):
         # Set project and experiment for all components
          os.environ["WANDB_PROJECT"] = config["project_name"]
os.environ["WANDB_RUN_GROUP"] = config["experiment_name"]
           root_path = hydra.utils.get_original_cwd()
                                                                                           hydra loads
           _ = mlflow.run(
               os.path.join(root_path, "component_1"),
                                                                                           configuration
               "main",
               parameters={
    "param_1": config["component_1"]["param_1"],
    "param_2": "value_2"
                                                                                           parameters
                                                                                           from config.yaml
           = mlflow.run(
                os.path.join(root_path, "component_2"),
               "main"
                                                                            config.yaml
               parameters={...}
                                                               project_name: "my_project"
experiment_name: "dev"
           _name__ == "__main_ ":
           go()
                                                               component_1:
  param_1: "value_1"
      component_1/run.py
      def go(args):
           # Start new run
          with wandb.init(...) as run:
                # Downloaded needed artifacts
               artifact = run.use_artifact(...)
artifact_path = artifact.file()
               df = pd.read_parquet(artifact_path)
               # Do the WORK: The real component functionality
               # Upload any generated artifact(s)
               artifact = wandb.Artifact(...)
               artifact.add_file(...) # or .add_dir(...)
               run.log_artifact(artifact)
      if __name__ == "__main__":
          # Parse arguments
           parser = argparse.ArgumentParser(...)
          parser.add_argument("--param_1", ...)
parser.add_argument("--param_2", ...)
                                                            component_1/MLproject
          args = parser.parse_args()
                                             name: component_1
           go(args)
                                             conda_env: conda.yml
      executes run.py with the
                                             entry_points:
                                               main:
    required parameters (from main.py)
                                                  parameters:
                                                    param_1:
                                                       description: description
                                                       type: str
                                                    param 2:
                                                  command: >-
integrates the MLproject in
the folder component_1 and
passes parameters to it
                                                     python run.py --param_1 {param_1} \
                                                                      --param_2 {param_2}
```