# MLOps Assignment 5 Docker and Github Actions Nitish Bhardwaj (B21AI056)

# 1. Docker

a. DockerFile creation

```
MLops_assignment5 > * Dockerfile > ...
      FROM python:3.9-slim
      WORKDIR /workspace
      COPY . .
      RUN apt-get update && apt-get install -y \
      build-essential \
      libssl-dev \
      libffi-dev \
      python3-dev
      RUN pip install --no-cache-dir -r requirements.txt
      EXPOSE 80
 10
      ENV NAME MLOpsLab
 11
      CMD ["python", "train.py"]
 12
```

### b. Docker Image build

# c. Run Docker Container

```
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# 2. Github Actions

a. Creating .yml file

```
github > workflows > 0 mlops_pipeline.yml

1     name: MLOps Pipeline CI
2     on:
3     | push:
4          | branches:
5          | - main
6          | paths:
7          | - 'MLops_assignment5/**'
8          | - main
9          | branches:
9          | - main
11          | paths:
12          | - main
13          | jobs:
14          | build:
15          | runs-on: ubuntu-latest
16          | steps:
17          | - name: Checkout code
18          | uses: actions/checkout@v2
19          | - name: Set up Python 3.9
20          | uses: actions/setup-python@v2
21          | with:
22          | python-version: '3.9'
23          | pip install --upgrade pip
24          | pip install --upgrade pip
25          | pip install --upgrade pip
26          | pip install --upgrade pip
27          | pip install --upgrade pip
28          | pip install --upgrade pip
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```

b. WorkFlow Results



