```
# Define directories
DATA DIR="/mnt/c/Users/harshita/ost/shell/data"
MODEL DIR="/mnt/c/Users/harshita/ost/shell/models"
DEPLOY DIR="/mnt/c/Users/harshita/ost/shell/deployment"
LOG_FILE="/mnt/c/Users/harshita/ost/shell/logs/training.log"
GIT REPO="https://github.com/harshitavyas04/OST-ClassroomTask2.git"
# Function to log messages
echo log() {
  echo "[$(date +'%Y-%m-%d %H:%M:%S')] $1" | tee -a $LOG FILE
}
# Step 1: Fetch latest data
echo log "Fetching latest data..."
# Add data fetching logic if applicable
# Step 2: Train the model
echo log "Training the model..."
python train model.py --data $DATA DIR --output $MODEL DIR/latest model.pkl || {
  echo_log "Model training failed!";
  exit 1;
}
# Step 3: Evaluate model performance
echo log "Evaluating model performance..."
OLD MODEL="$MODEL DIR/best model.pkl"
NEW MODEL="$MODEL DIR/latest model.pkl"
python evaluate model.py --old model $OLD MODEL --new model $NEW MODEL >
performance.txt
if grep -q "New model is better" performance.txt; then
  echo log "Deploying new model..."
  cp $NEW MODEL $DEPLOY DIR/model.pkl
  mv $NEW MODEL $MODEL DIR/best model.pkl
else
  echo log "New model did not improve performance. Skipping deployment."
fi
# Step 4: Archive previous models
echo log "Archiving old models..."
mkdir -p $MODEL DIR/archive
mv $MODEL DIR/model *.pkl $MODEL DIR/archive/ 2>/dev/null || echo log "No old models to
archive."
```

```
# Step 5: Upload code and PDF to GitHub
echo log "Uploading files to GitHub..."
cd /mnt/c/Users/harshita/ost/shell || exit 1
git add.
git commit -m "Automated model training and deployment update"
git push $GIT REPO main || echo log "Git push failed!"
# Step 6: Upload PDF file (if applicable)
if [ -f "$PDF FILE" ]; then
  echo_log "Uploading report PDF..."
  git add report.pdf
  git commit -m "Adding report PDF"
  git push || echo log "Git push for PDF failed!"
else
  echo_log "No report PDF found. Skipping upload."
fi
echo_log "Automation complete!"
```