

GitHub Contribution Guide for EE413 Project

Repository: Image Compression & Classification

GitHub Link: <https://github.com/MYMutawa/Image-Compression-Classification.git>

1. Cloning the Repository (All Members)

First, clone the project repository to your local machine:

```
git clone https://github.com/MYMutawa/Image-Compression-Classification.git  
cd Image-Compression-Classification
```

2. Creating a New Branch (Each Member)

Each teammate will work on a different part of the project using their own branch:

```
Mohammed -> mohammed-models  
Saud     -> saud-wavelets  
Naif     -> naif-compressed-train  
Osama    -> osama-cs
```

Example:

```
git checkout -b mohammed-models
```

3. Making Changes

Make your edits inside the notebook, then commit your changes:

```
git add EE413_Project_Image_Compression_Classification.ipynb  
git commit -m "Add model selection section"
```

4. Pushing Your Branch

Push your branch to the remote repository:

```
git push origin mohammed-models
```

5. Creating a Pull Request (PR)

1. Go to the GitHub repo.
2. Click 'Compare & Pull Request'.
3. Add a title and description of your contribution.
4. Submit the pull request to merge your branch into main.

6. Updating Your Local main

Once other branches are merged, stay up to date by running:

```
git checkout main
```

```
git pull origin main
```

7. Resolving Merge Conflicts

If Git complains about conflicts:

```
git status
```

```
# open the conflicted file and resolve manually
```

```
git add <filename>
```

```
git commit -m "Resolve merge conflict"
```

Tips:

- Commit often with meaningful messages.
- Pull main regularly before pushing your work.
- Avoid editing parts assigned to others to prevent conflicts.