

RWR 4013

Digital Twins for Smart Cities

Dr. Ahmad Mohammadi

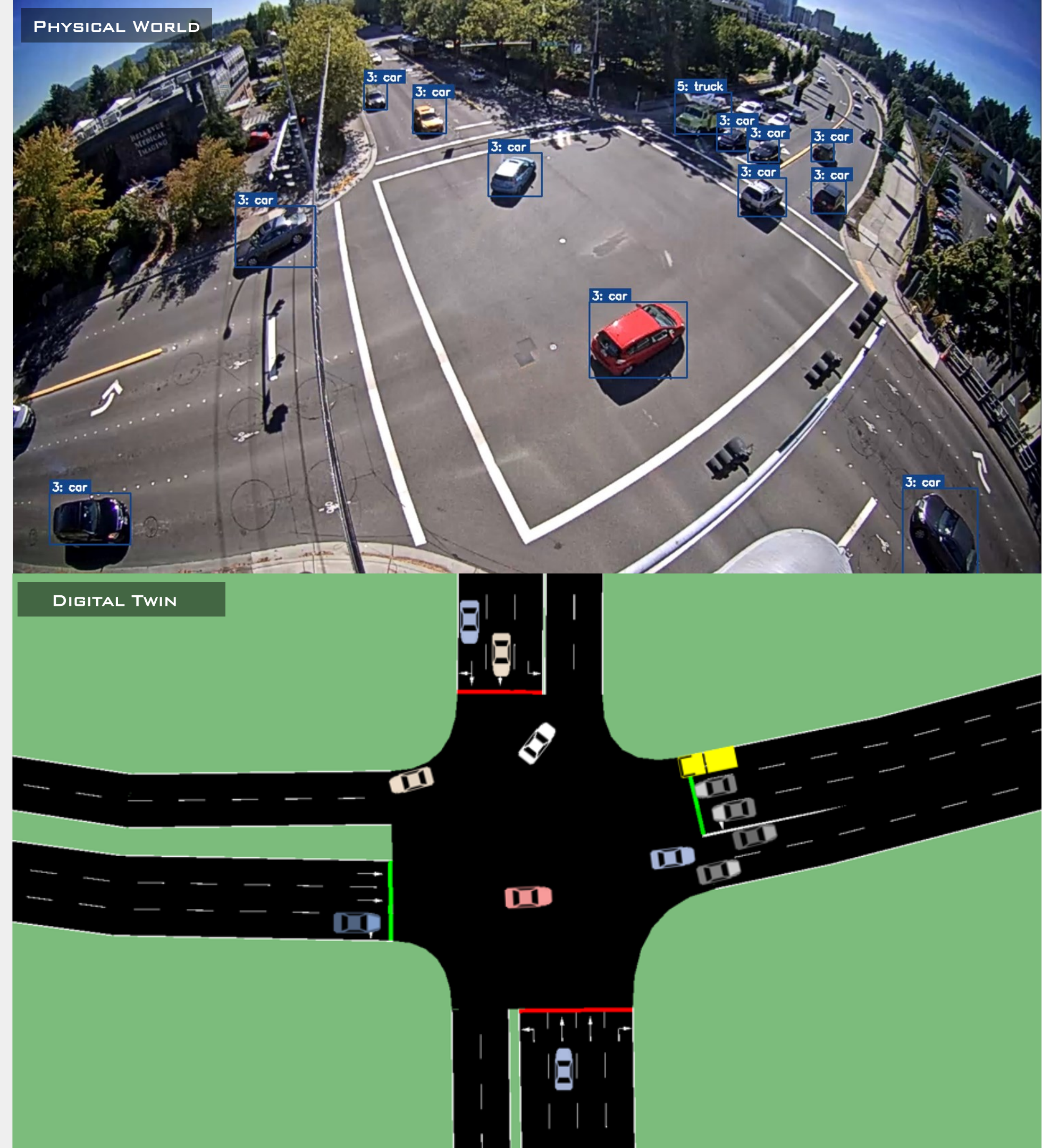
Week 11 | Session 2:
Decision III
(Project Website Showcase)

Fall 2026

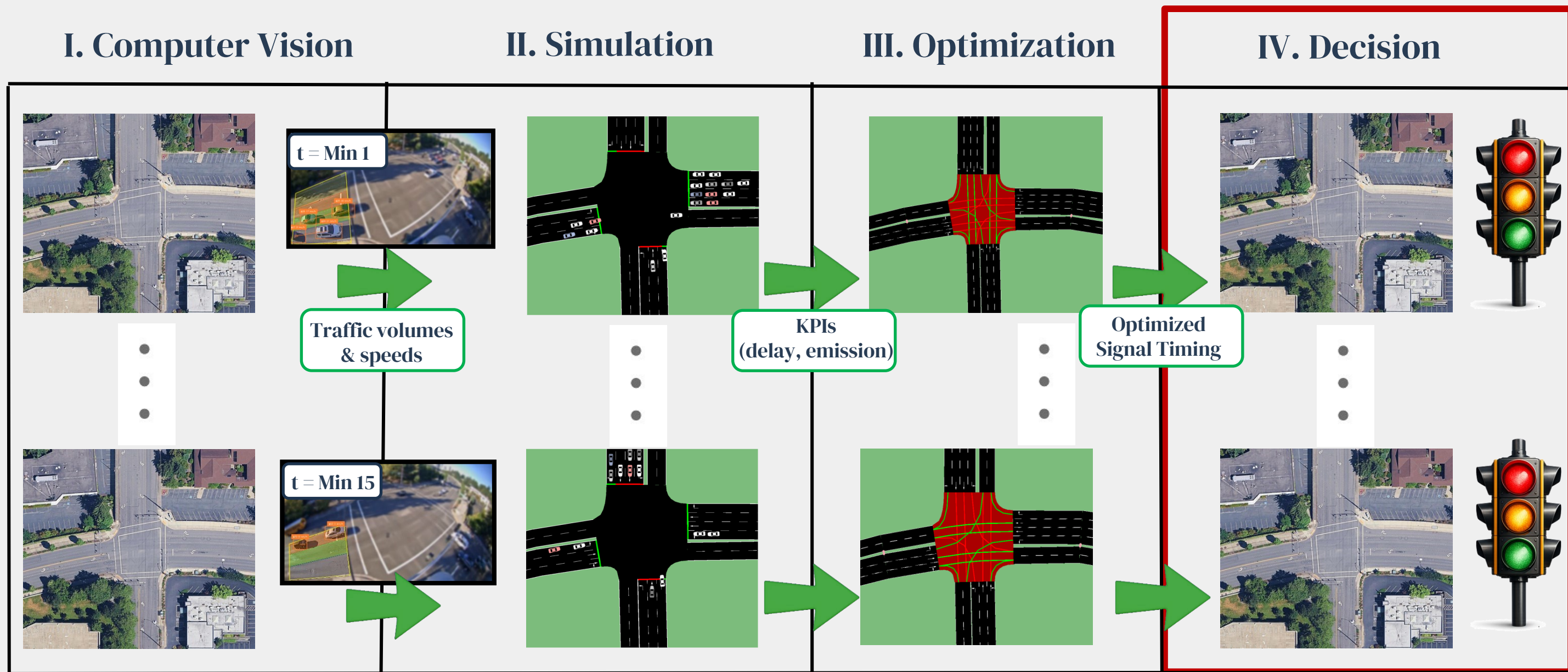
RoadwayVR



roadwayvr.github.io/DigitalTwinsforSmartCities



Overview of Course Syllabus in One Shot

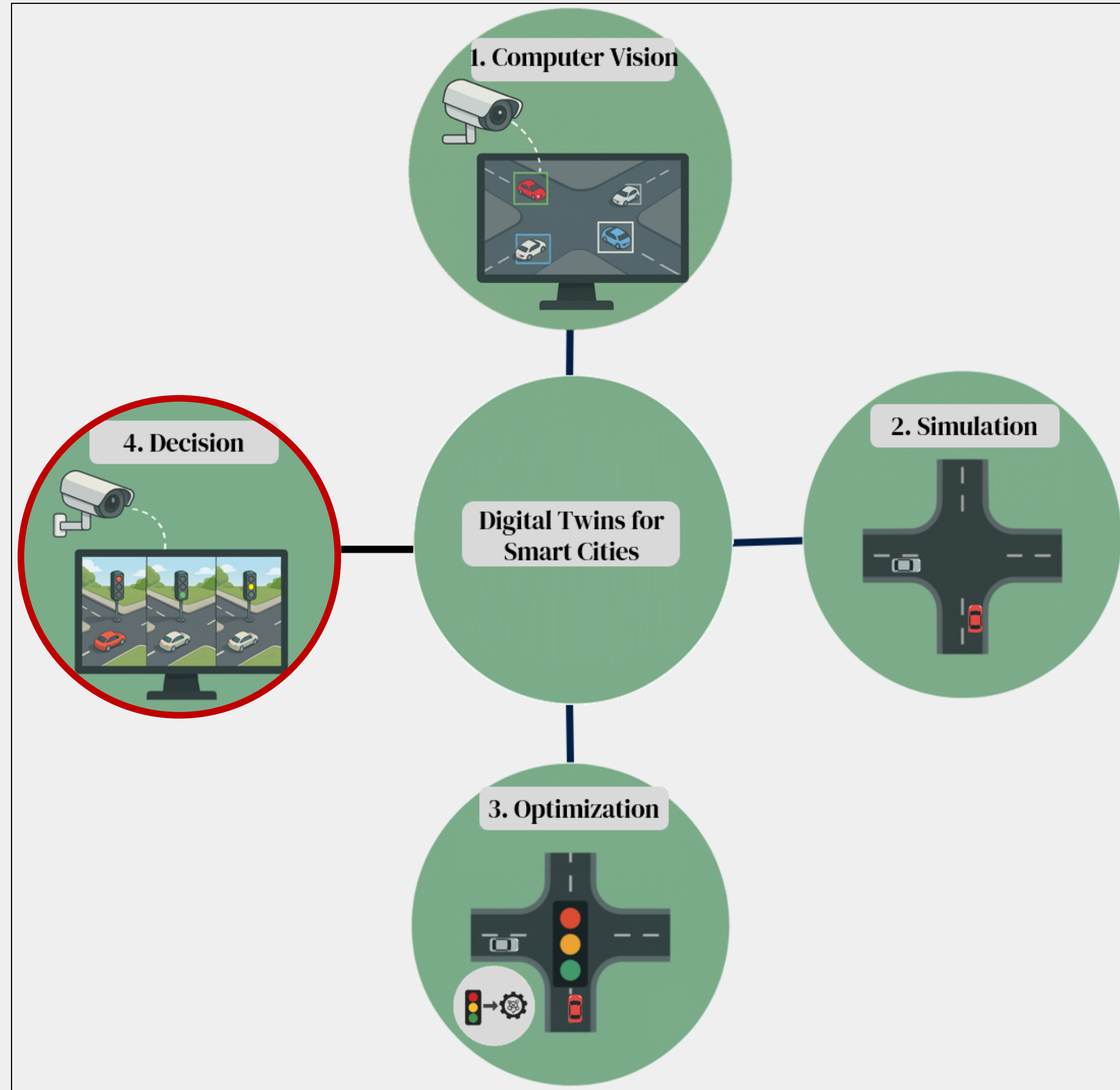


Agenda

❑ Final Project Website + Demo Video +

Screenshots + KPI Tables/Plots

❑ Final Project Presentations



Final Project Website: Github

- **GitHub is an open-source platform** to create a free website and publish your Demo Video + Screenshots + KPI Tables/Plots.
- **A GitHub link strengthens** your CV by providing proof of what you built (e.g., a 3D Simulation) with demos.
- **Show, don't just tell:** screenshots and short videos in a website can communicate your work faster than long text.

The screenshot displays the GitHub repository page for `SimuTraffX-Lab/SUMO2Unity`. The repository is public and has 8 branches and 2 tags. The commit history shows a series of updates to the README.md file, with the most recent commit by Ahmad1441 2 months ago. The README section is titled "Welcome to Sumo2Unity Traffic Co-Simulation Tool" and includes a diagram illustrating the workflow from SUMO to Unity. The diagram shows a SUMO map of a traffic intersection being loaded into a Unity 3D simulation environment. Below the diagram, two performance plots are shown: "Performance Function #1" (RTT per Second) and "Performance Function #2" (FPS). The first plot shows a stable RTT around 1.0 second, and the second plot shows a stable FPS around 125. The repository also has 4 contributors, 6 forks, 49 stars, 8 open issues, and a MIT license.

Repository Structure:

File/Folder	Commit Message	Commit Date
.github	Create ISSUE_TEMPLATE	2 years ago
Assets	FourthCommit	5 months ago
Packages	v2.0.0	5 months ago
ProjectSettings	Third Commit	5 months ago
RequiredFiles	Update Sumo2UnityTool_combined.py	5 months ago
Results	Sumo2Unity V2.0.0	5 months ago
.gitattributes	FirstCommit	2 years ago
.gitignore	Initial commit	2 years ago
.vsconfig	Initial Commit	2 years ago
README.md	Update README.md	2 months ago

Performance Function #1: RTT per Second

Time (s)	RTT per Second	Avg RTT
0	1.0	1.0084
100	1.0	1.0084
200	1.0	1.0084
300	1.0	1.0084
400	1.0	1.0084

Performance Function #2: FPS

Time (s)	FPS	Avg FPS
0	125	125.18
100	125	125.18
200	125	125.18
300	125	125.18
400	125	125.18

Workflow Diagram:

1. SUMO Map (Traffic Intersection) → Unity 3D Simulation
2. SUMO Map (Traffic Intersection) → Unity 3D Simulation (First View)
3. SUMO Map (Traffic Intersection) → Unity 3D Simulation (Second View)

Contributors: 4 CONTRIBUTORS, 6 FORKS, 49 STARS, 8 OPEN ISSUES, MIT LICENSE, LINKEDIN, CONNECT

Steps

Goal: Publish a free GitHub Pages site to showcase your project (video + results)

☐ Create a GitHub account

☐ Create The Website Domain

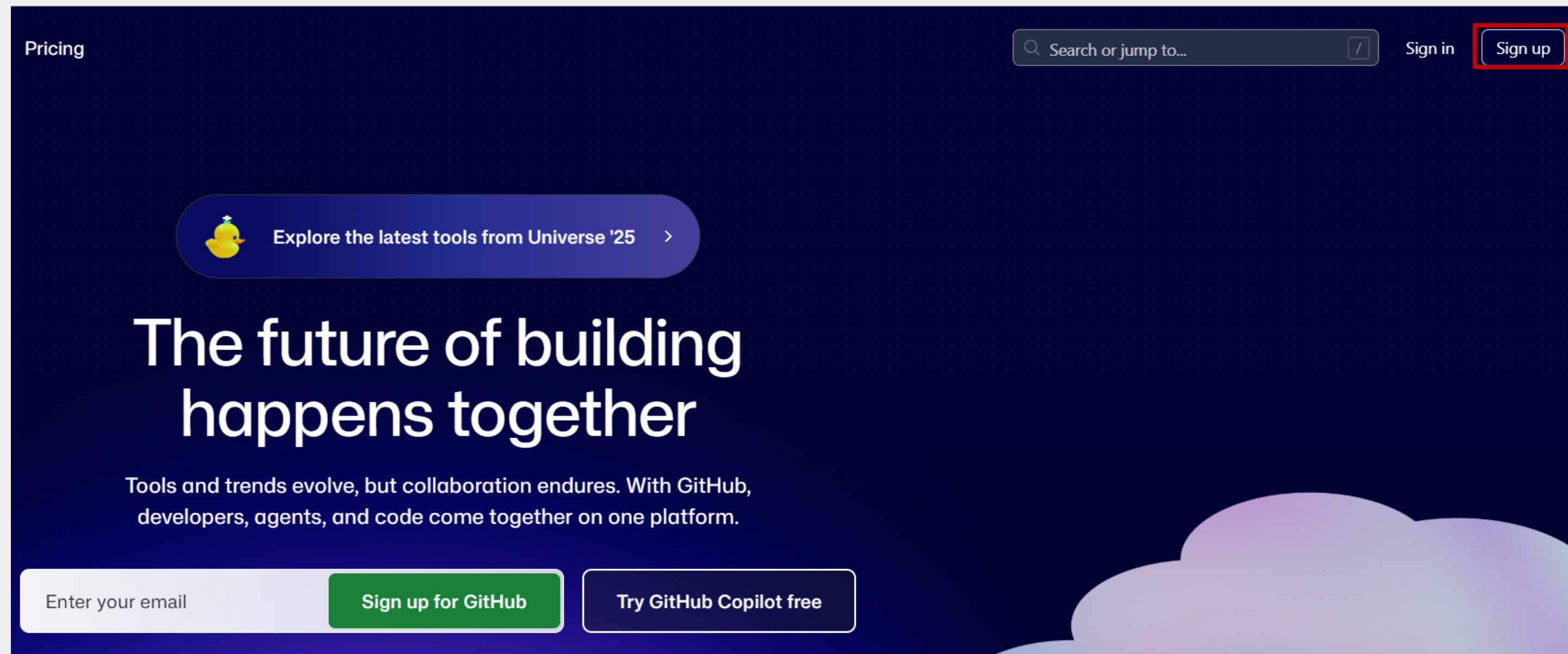
☐ Create The Website Template

☐ Publish the Website

☐ Add your project files (Videos, images, data)

Create a GitHub account

1. Open Github.com and Sign UP




Create a GitHub account


2. Create an Account using your email

3. Login to your account

4. Username is: FirstNameLastName

Sign up for GitHub

 Continue with Google

 Continue with Apple

or

Email*

Email

Password*

Password

Password should be at least 15 characters OR at least 8 characters including a number and a lowercase letter.

Username*

Username

Username may only contain alphanumeric characters or single hyphens, and cannot begin or end with a hyphen.

Your Country/Region*

Canada

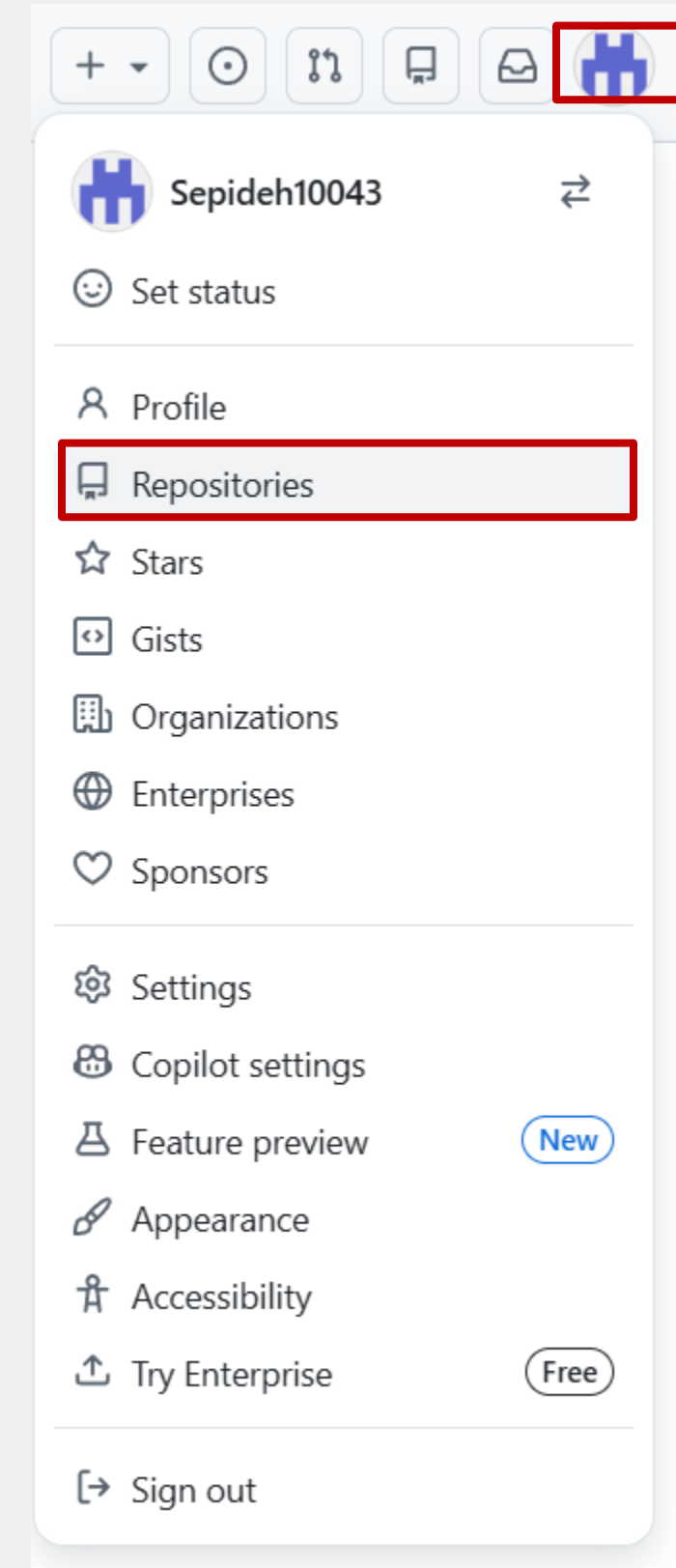
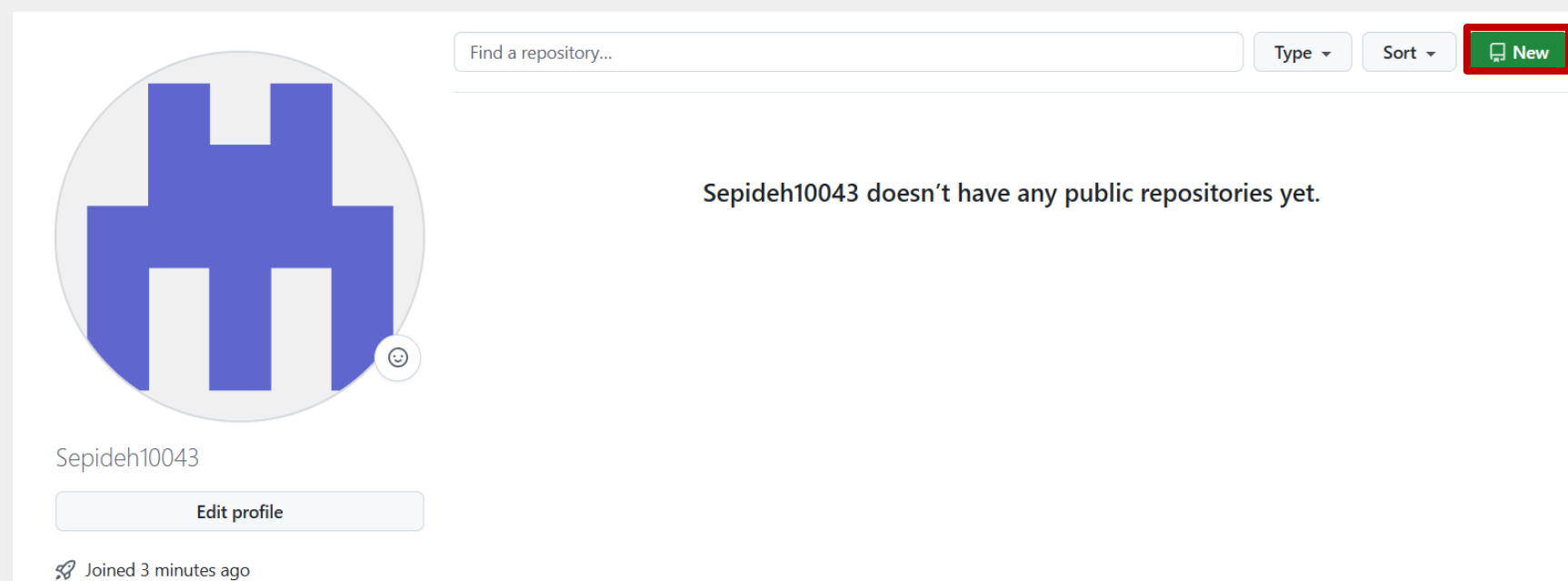
For compliance reasons, we're required to collect country information to send you occasional updates and announcements.

Create account >

Create The Website Domain

1. Select your account (Top Right)
2. Click Repositories and you will see below (you don't have any project 😊)

3. Select new



Create The Website Domain

4. Repository name:

FirstNameLastName.github.io (must match your GitHub username from Slide 6)

5. Description: My personal website showcasing computer vision, traffic simulation, and optimization skills

6. Initialize repository: Add a README (ON)

7. Click Create repository

Create a new repository

Repositories contain a project's files and version history. Have a project elsewhere? [Import a repository](#).
Required fields are marked with an asterisk (*).

1

General

Owner *

Sepideh10043

Repository name *

AhmadMohammadi.github.io

AhmadMohammadi.github.io is available.

Description

My Personal Website Showcasing Computer Vision, Traffic Simulation, and Optimization Skills

91 / 350 characters

2

Configuration

Choose visibility *

Choose who can see and commit to this repository

Public

Add README

READMEs can be used as longer descriptions. [About READMEs](#)

On

Add .gitignore

.gitignore tells git which files not to track. [About ignoring files](#)

No .gitignore

Add license

Licenses explain how others can use your code. [About licenses](#)

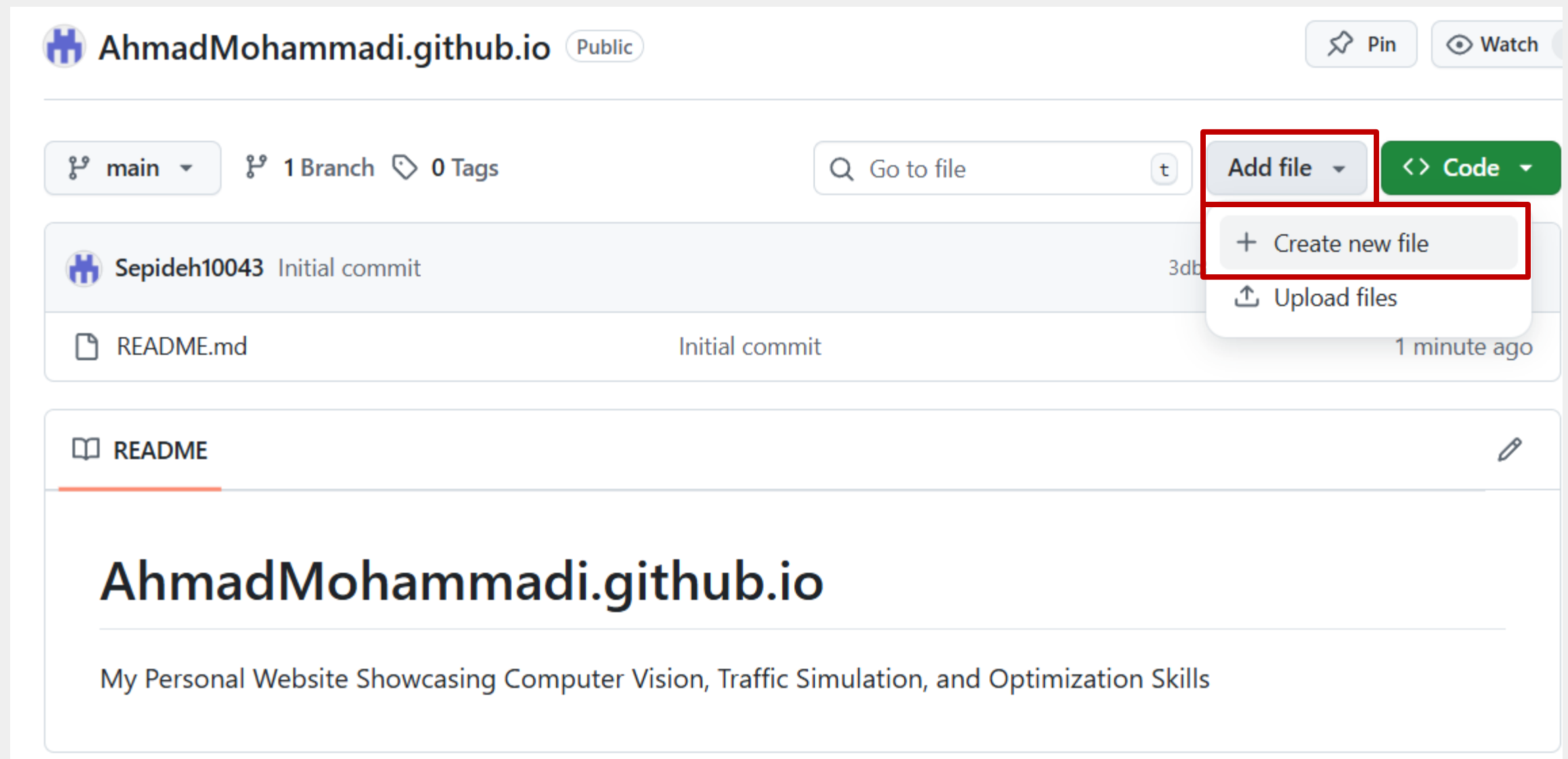
No license

Create repository

Create The Website Template

1. In the repo

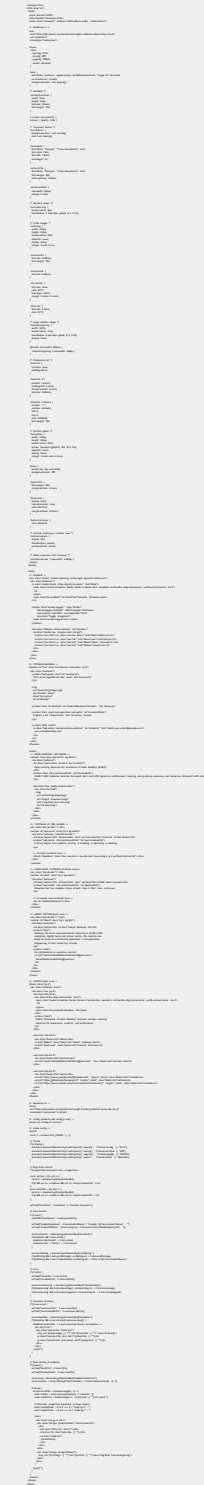
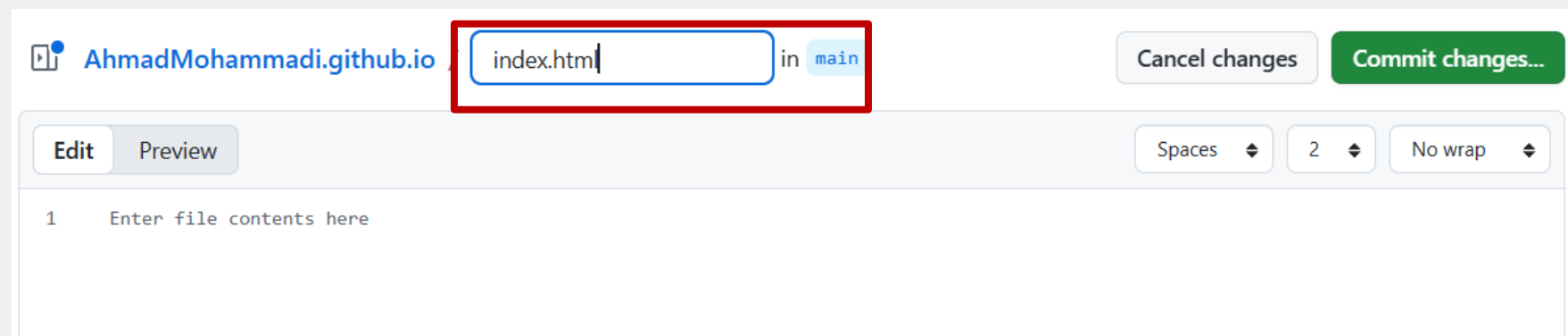
2. Add File → Create new file



Create The Website Template

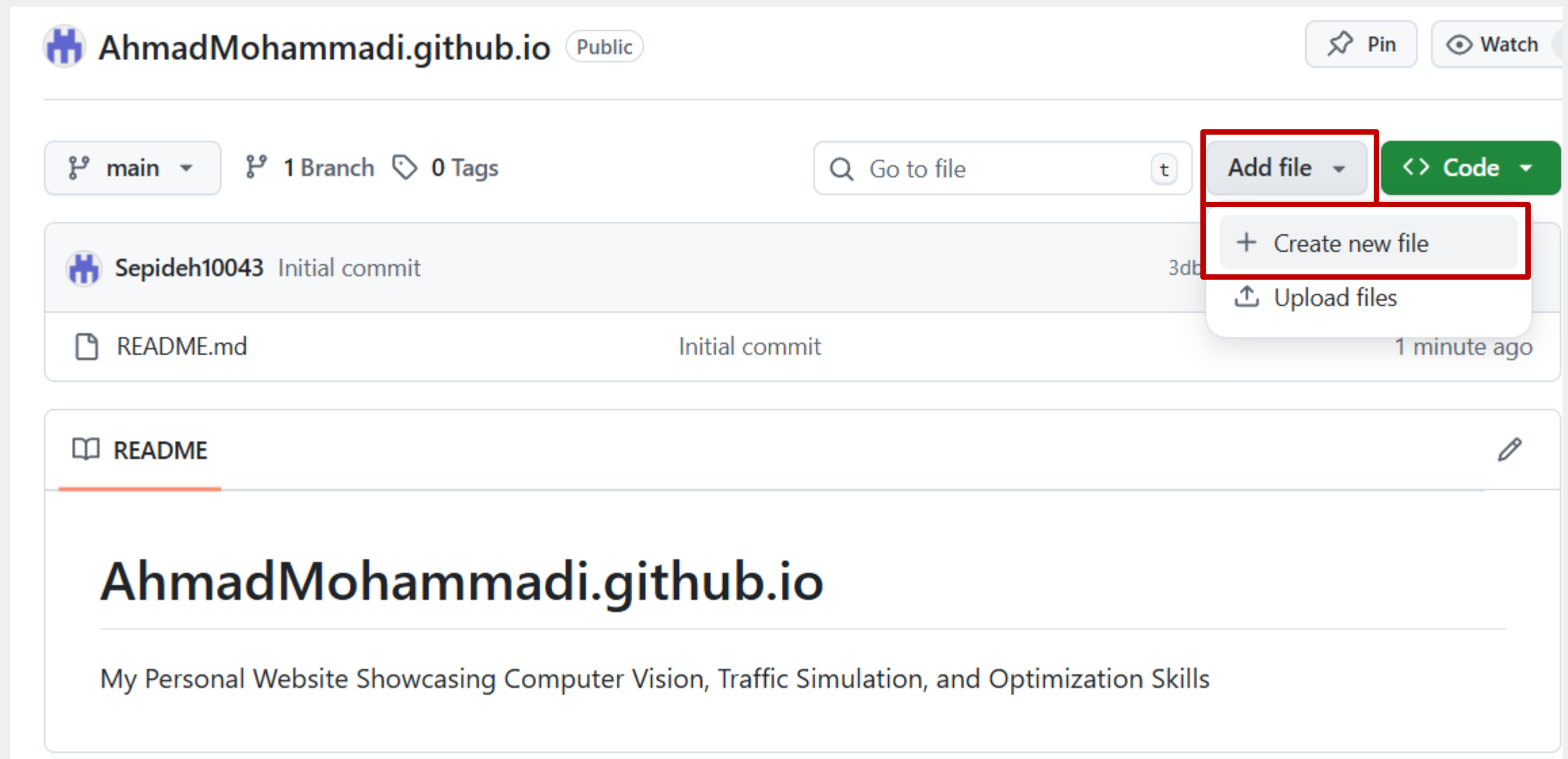
3. In File name: Type “index.html”

4. Copy and paste this code into the big text box



Create The Website Template

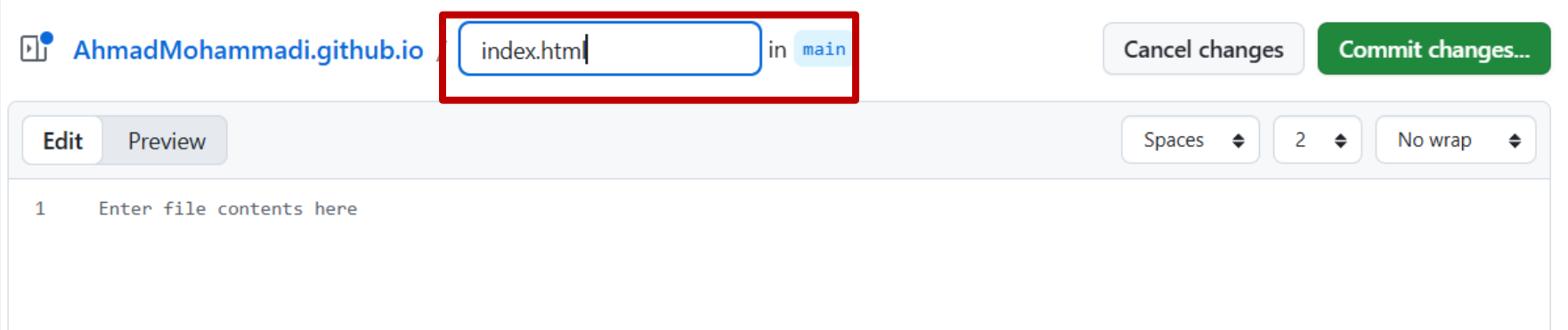
5. In the repo → Add File → Create new file



Create The Website Template

6. In File name:
Type “config.js”

7. Copy and paste this
code into the big text box



Publish the Website

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

main

AhmadMohammadi.github.io /

Go to file

Add file

Sepideh10043

Create index.html

0c9c441 · 2 minutes ago

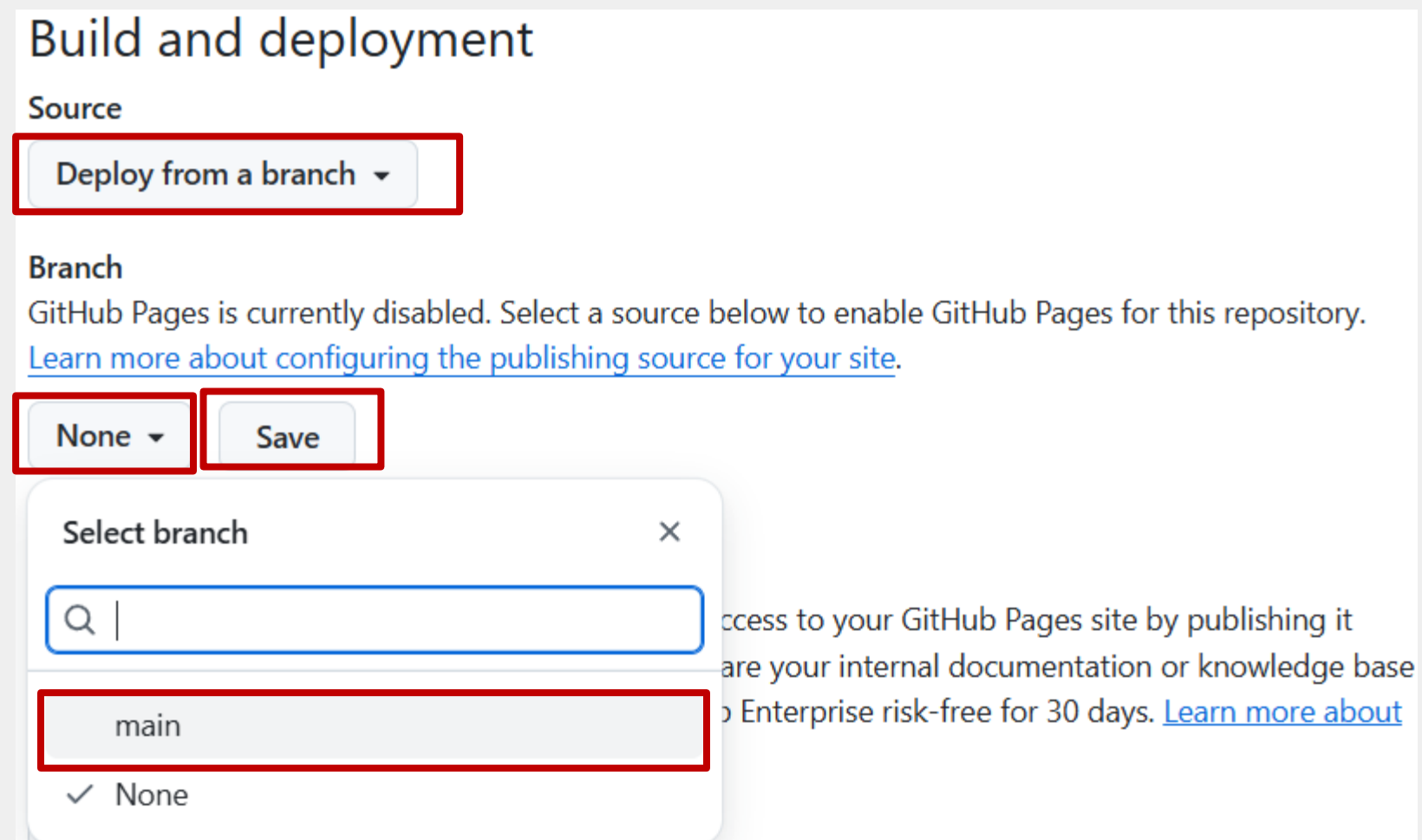
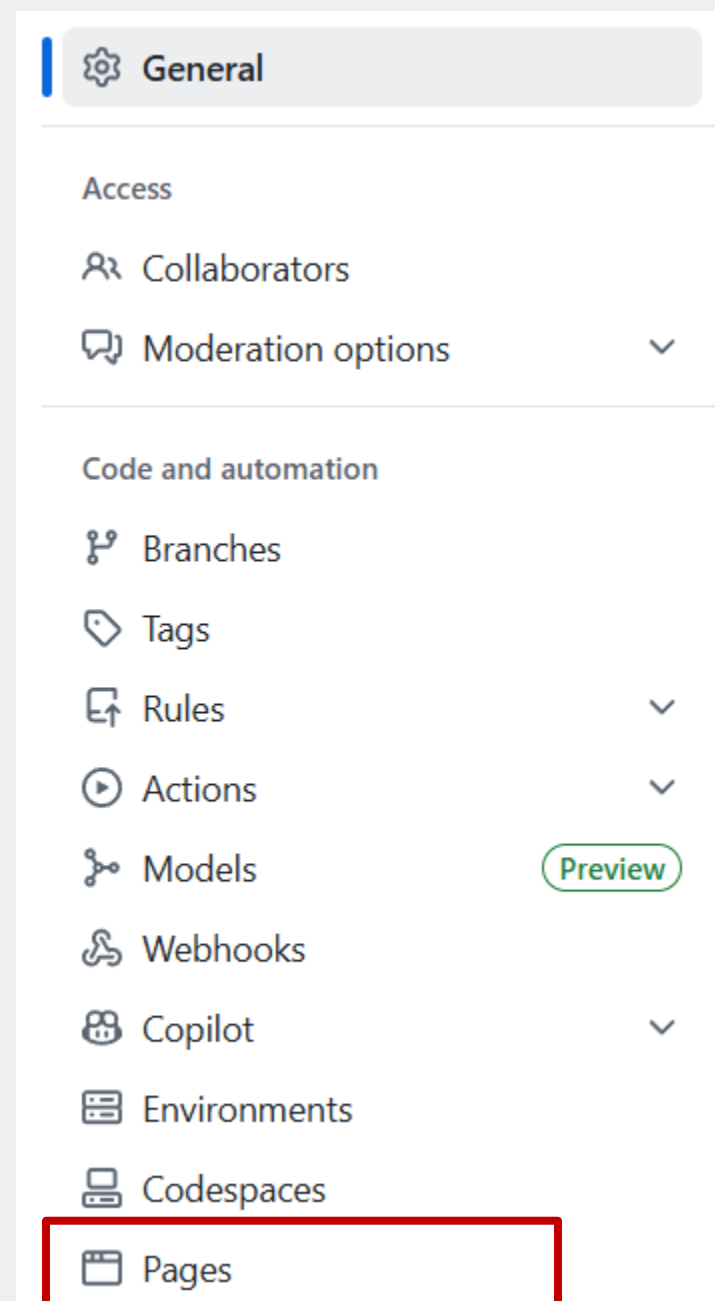
Name	Last commit message	Last commit date
README.md	Initial commit	48 minutes ago
index.html	Create index.html	2 minutes ago

README.md

AhmadMohammadi.github.io

My Personal Website Showcasing Computer Vision, Traffic Simulation, and Optimization Skills

Publish the Website



Publish the Website

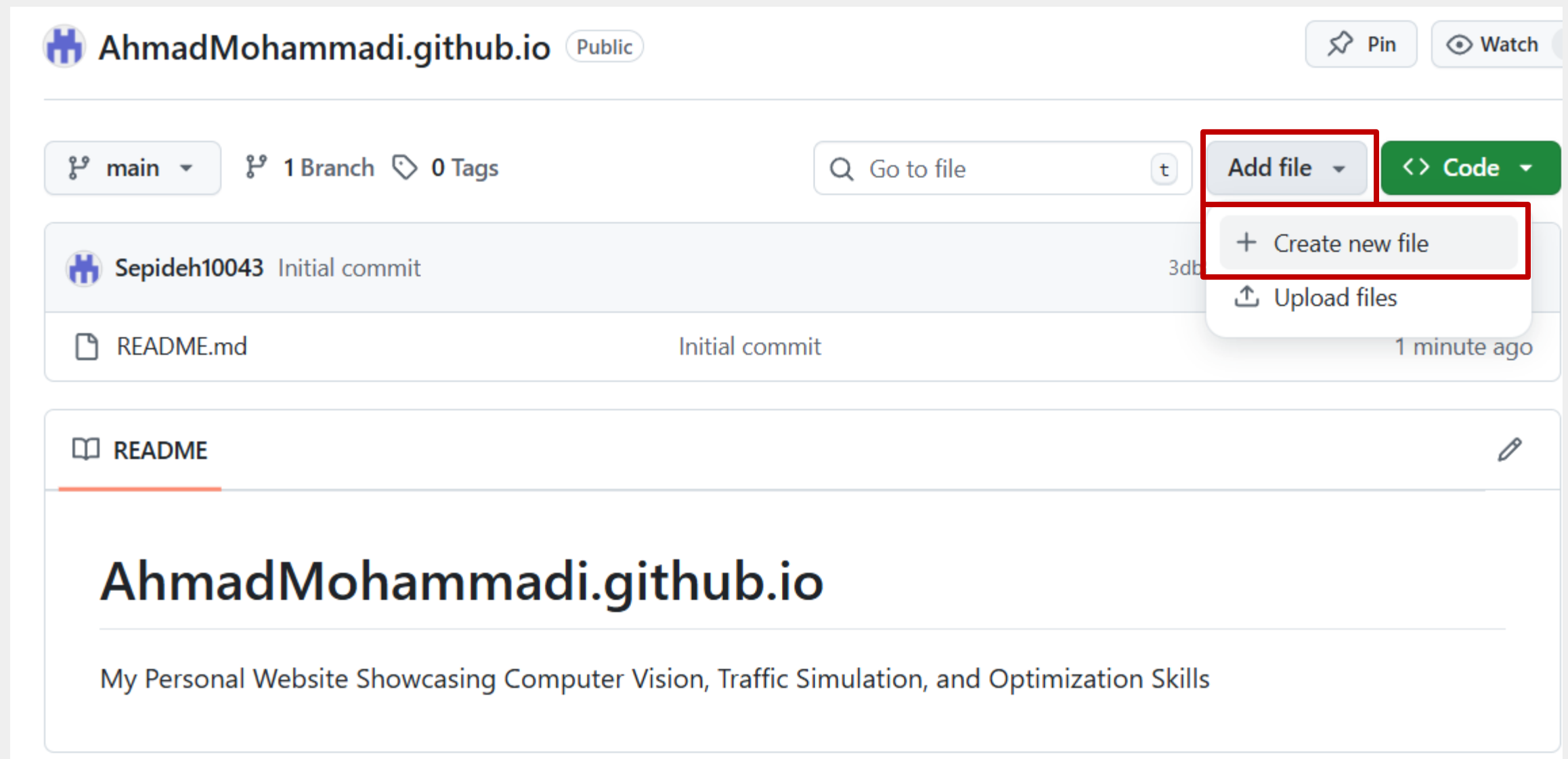
- ❑ Open `FirstNameLastName.github.io`
- ❑ Congrats you have now a website domain with your name → Now, you can start modifying it

Add your project files (Videos, images, data)

1. Go to your repo main page:

[https://github.com/FirstnameLastName/ FirstnameLastName.github.io](https://github.com/FirstnameLastName/FirstnameLastName.github.io)

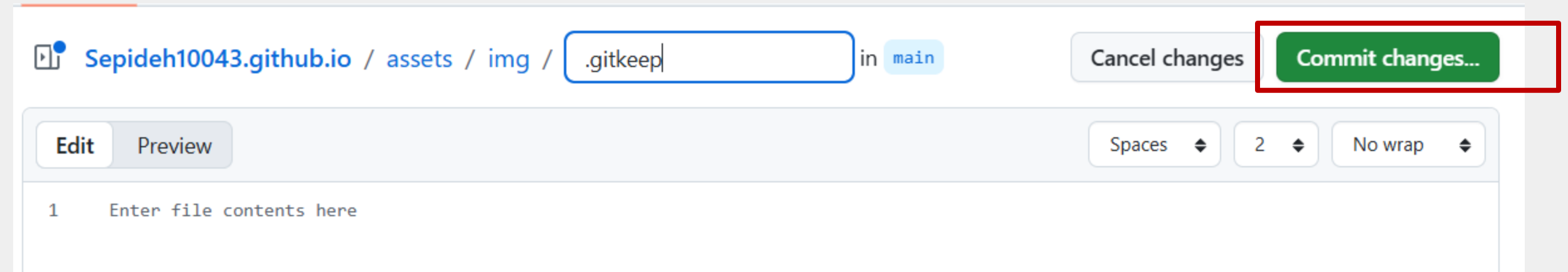
2. Add File → Create new File



Add your project files (Videos, images, data)

3. At the top where it says “name your file ...”, type this exactly:

`Assets/img/.gitkeep`



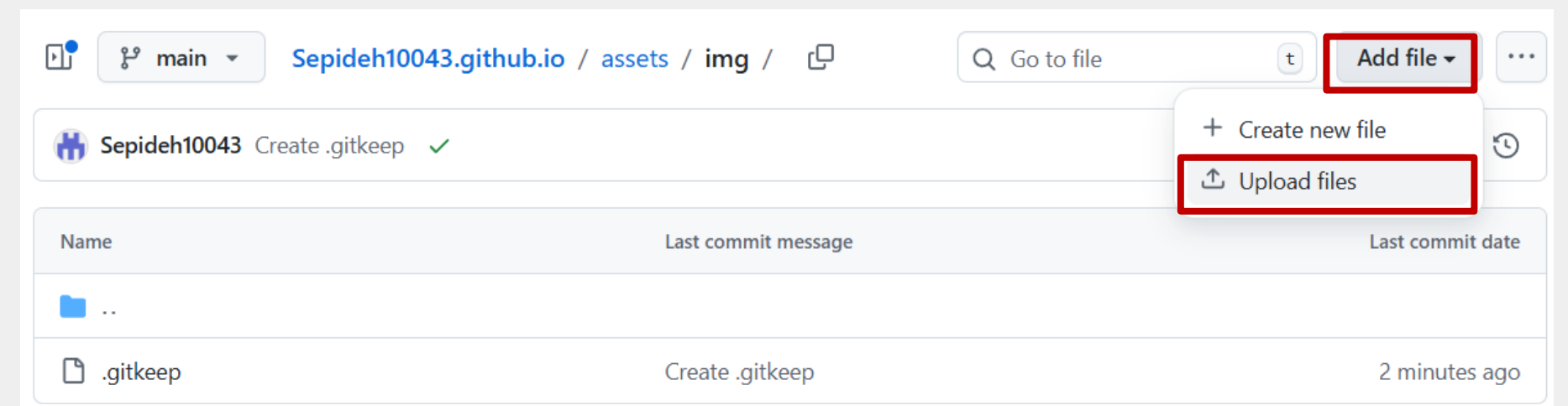
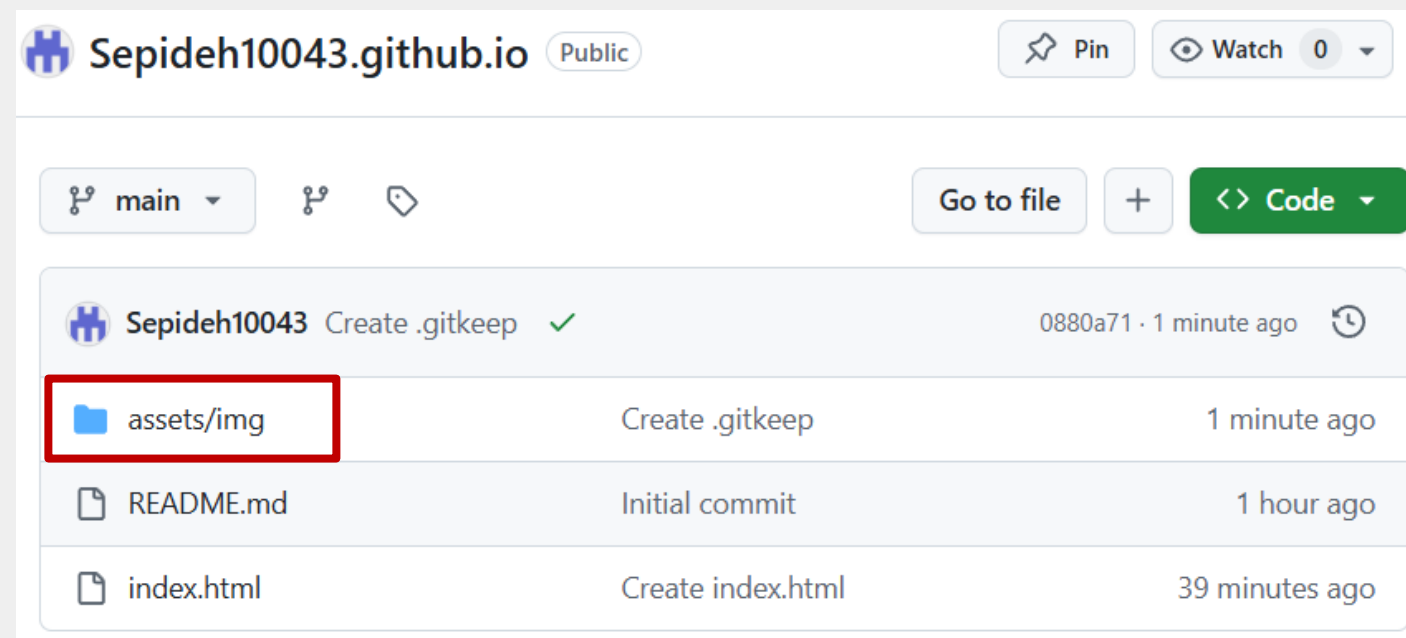
Add your project files (Videos, images, data)

4. In the repo → Click Assets → img → you are inside assets/img

5. Click Add files → Upload Files

6. Drag and Drop your images into Upload folder

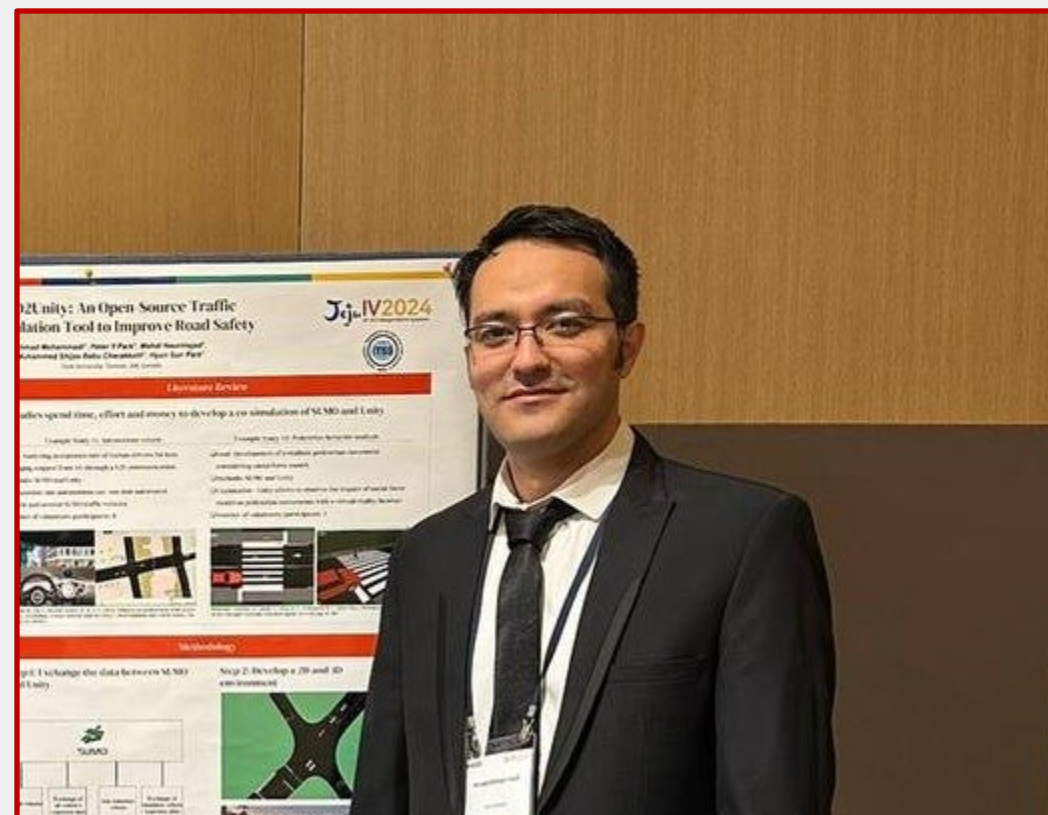
7. Hit Commit



Add your project files (Videos, images, data)

8. Replace Image1.jpg with the image you prefer

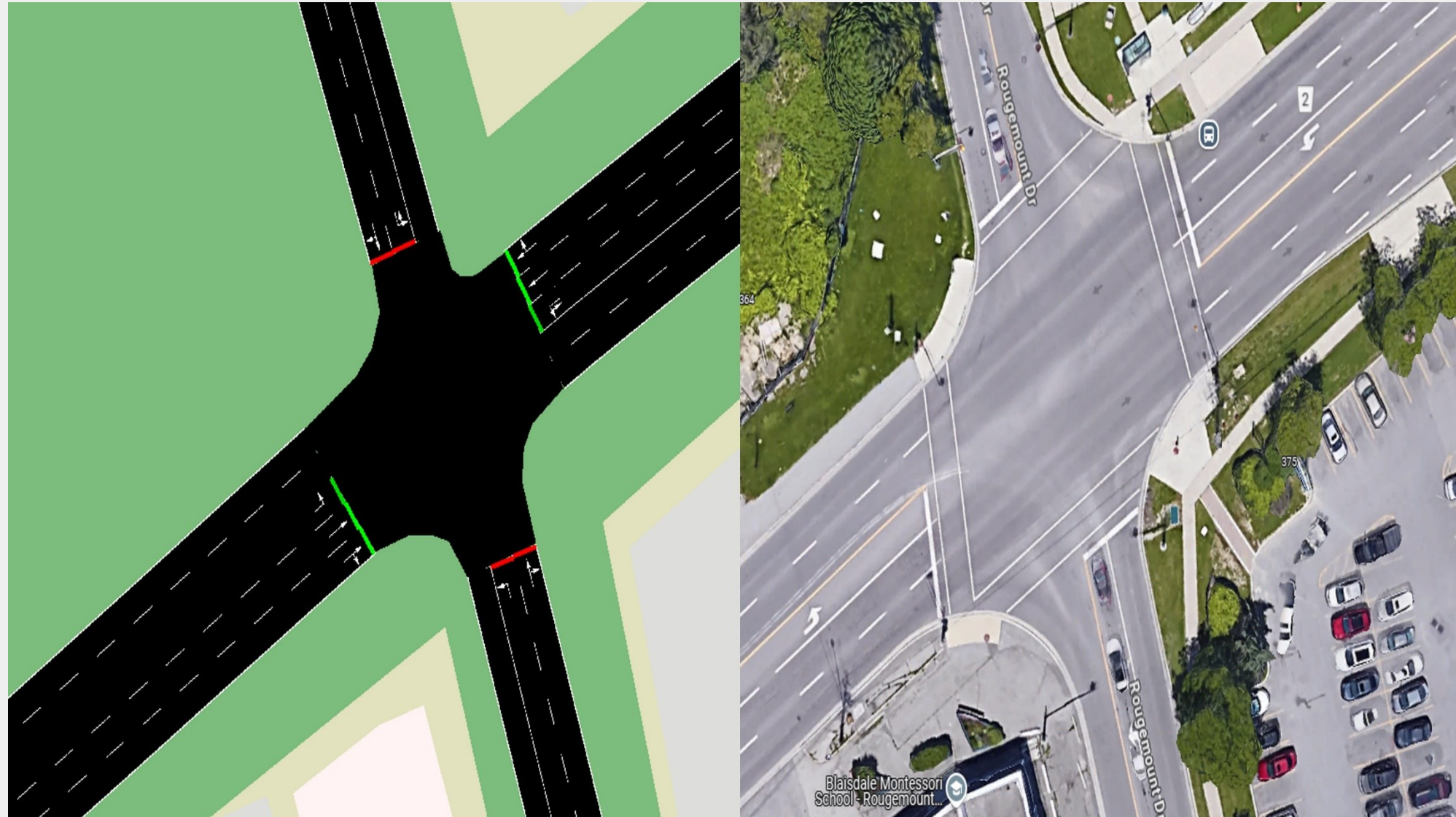
Image1.jpg



Add your project files (Videos, images, data)

9. Replace Image2.jpg with your project images

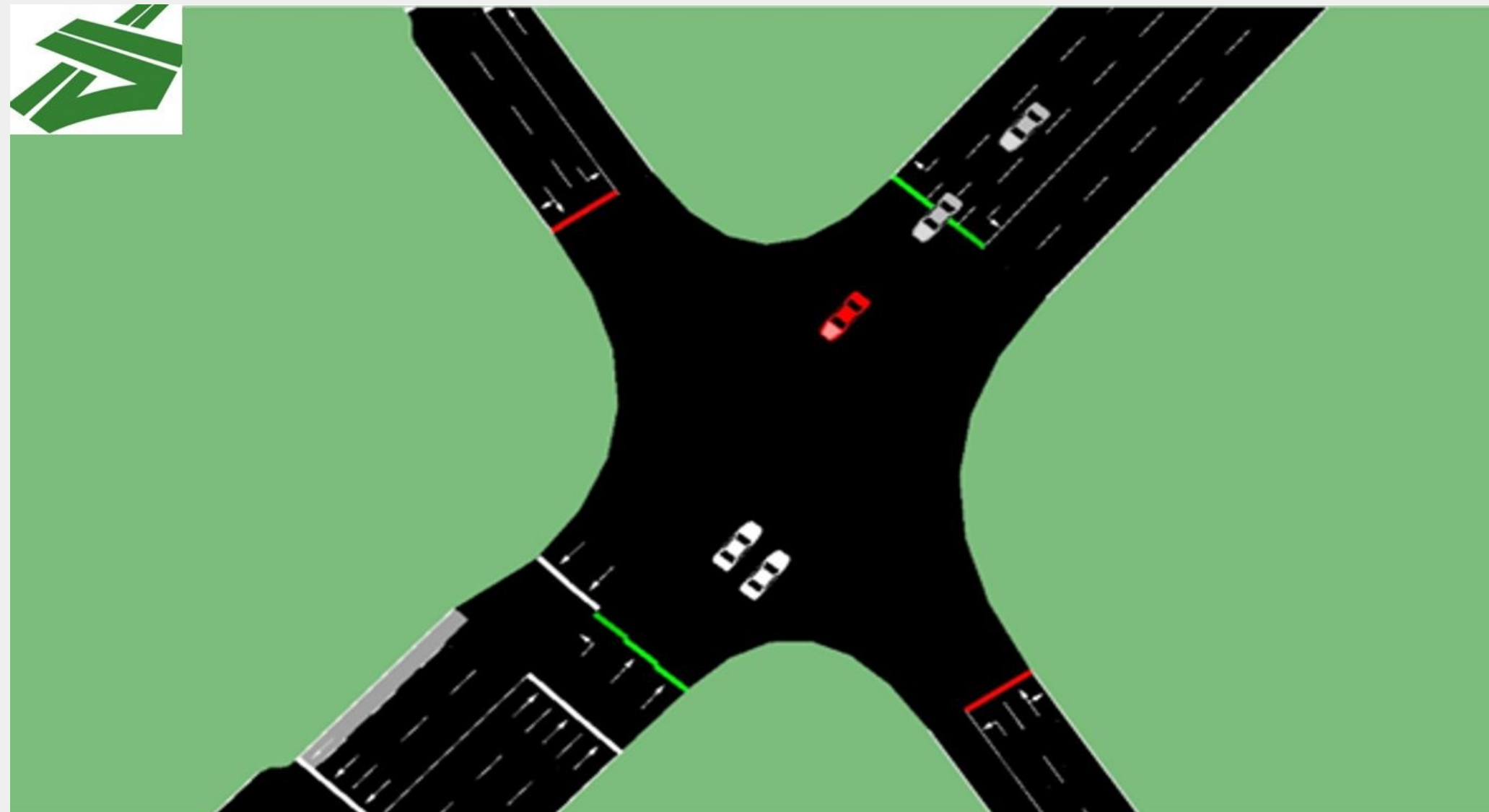
Image2.jpg



Add your project files (Videos, images, data)

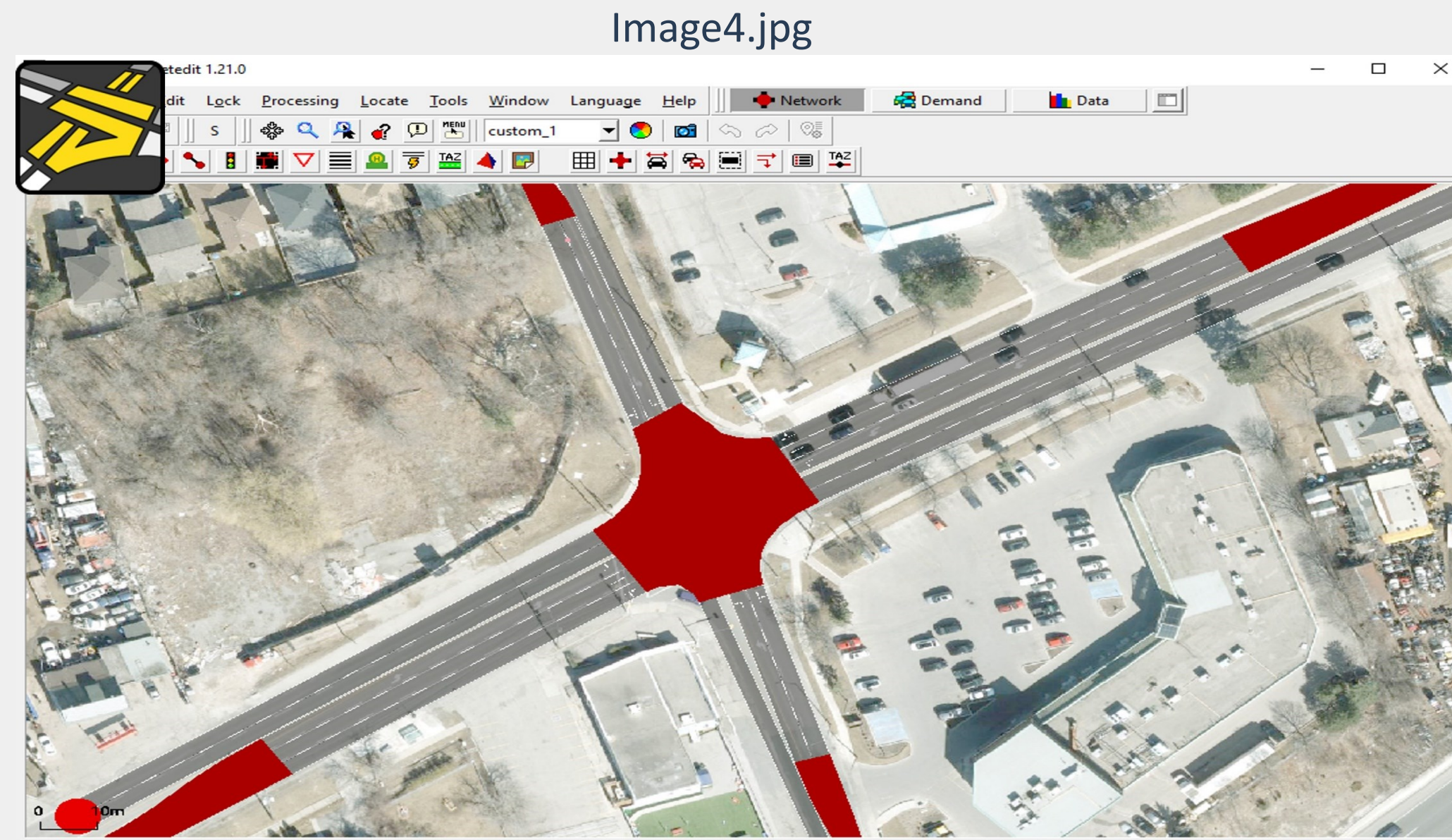
10. Replace Image3.jpg with your project images

Image3.jpg



Add your project files (Videos, images, data)

11. Replace Image4.jpg with your project images



Add your project files (Videos, images, data)

12. Replace Image5.jpg with your project images

