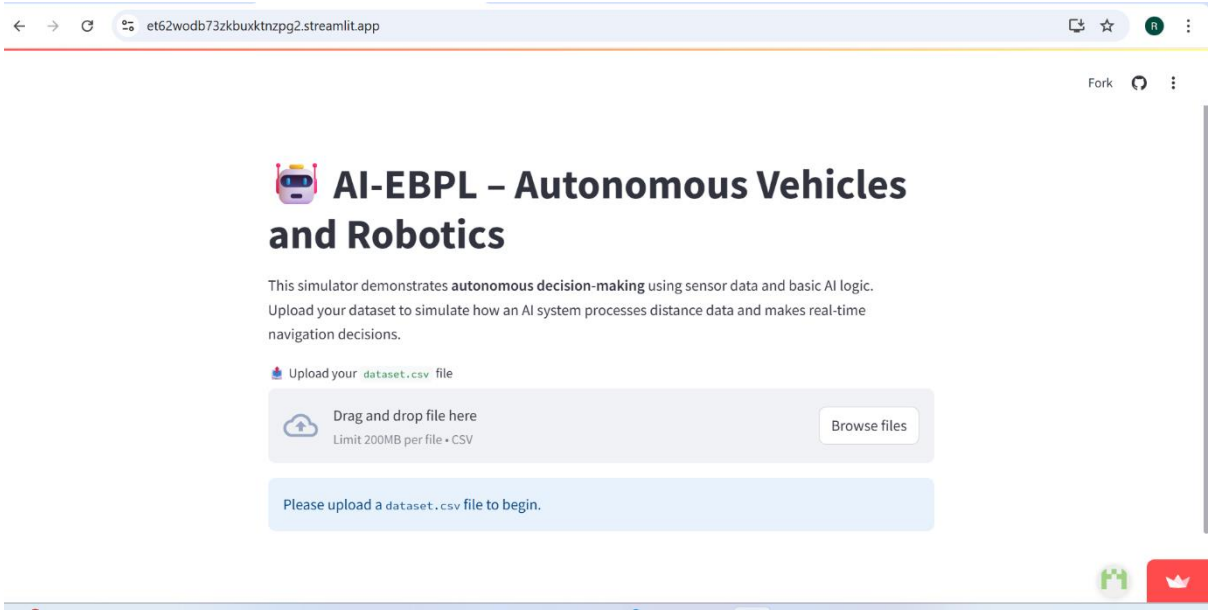
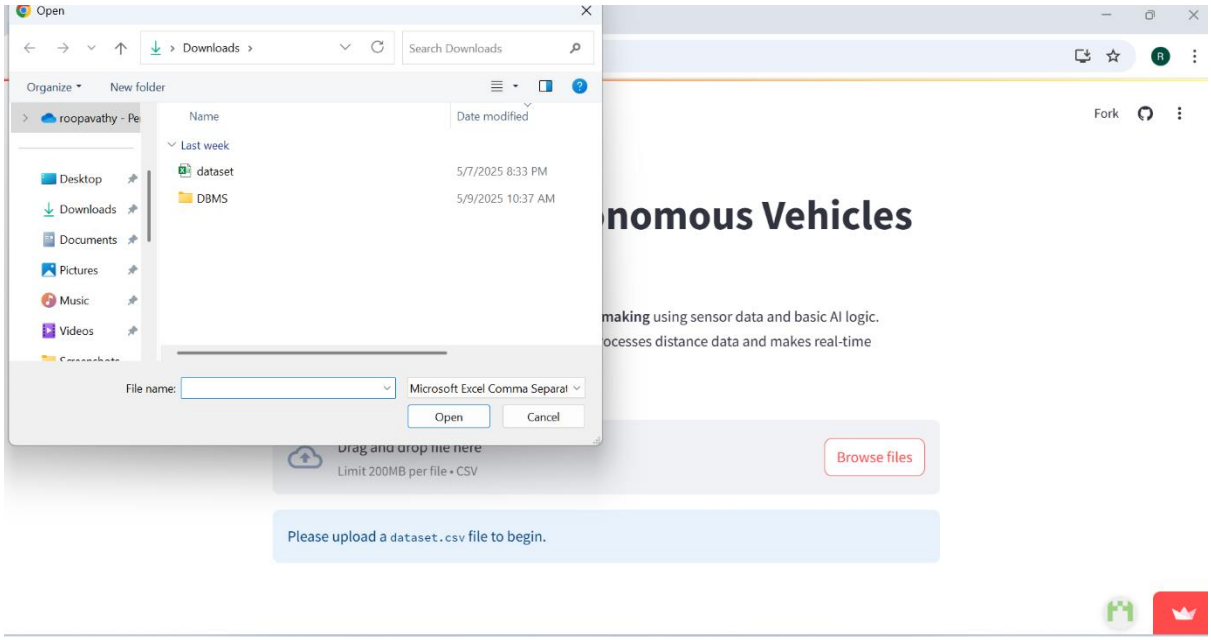
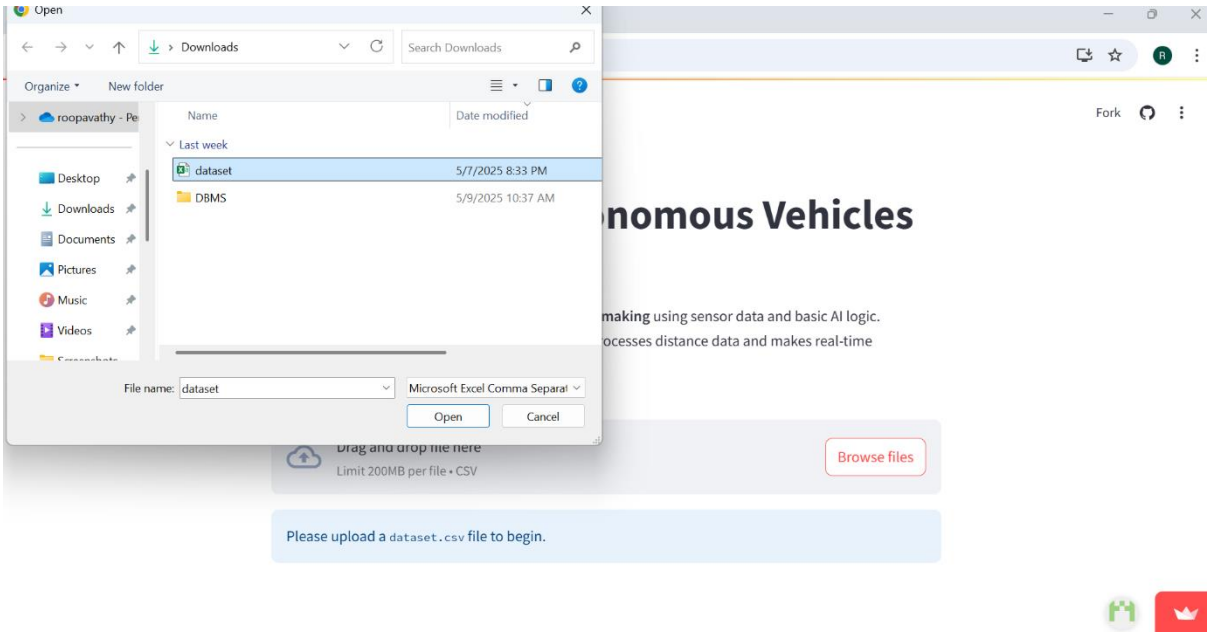
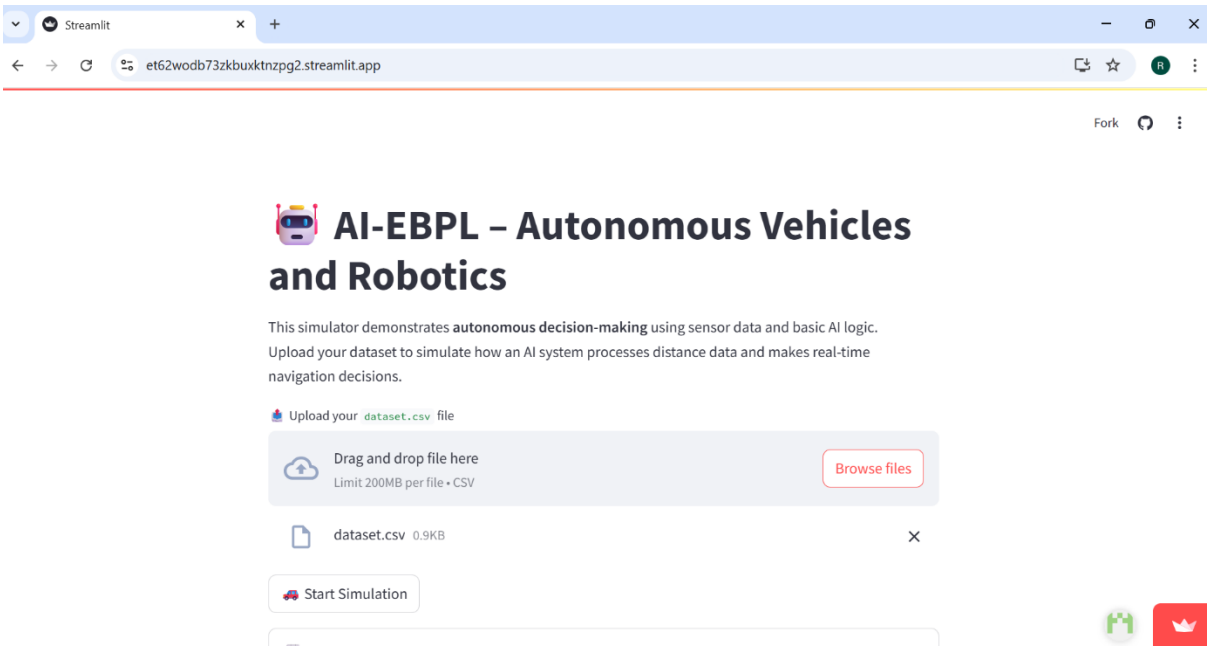
SCREENSHOT:

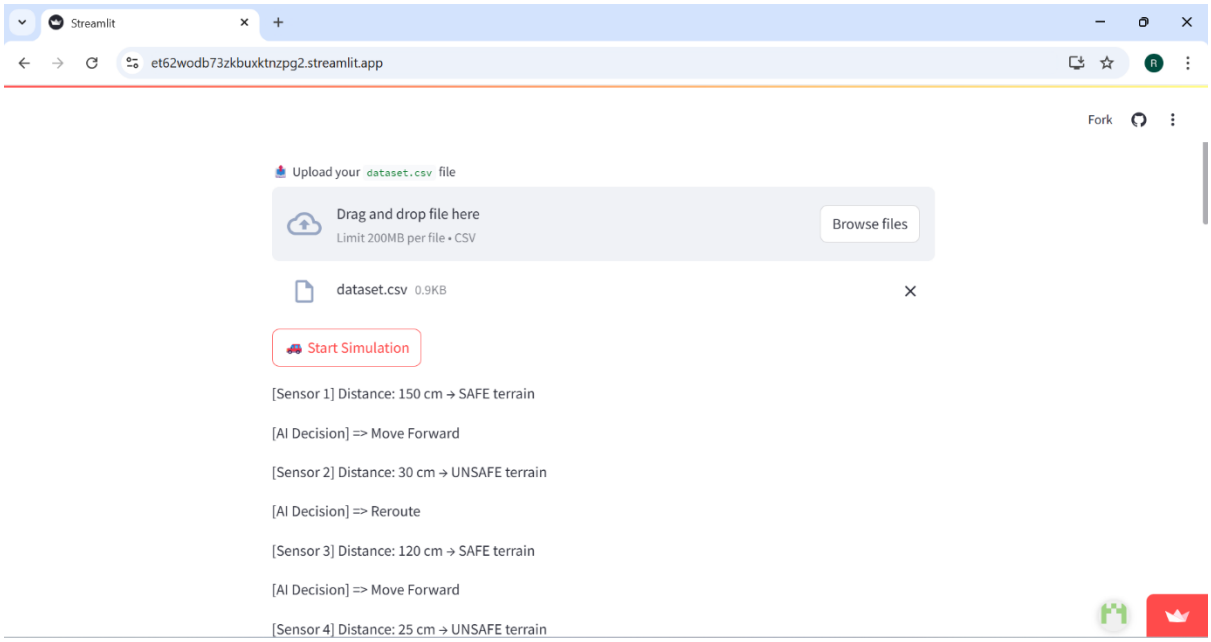


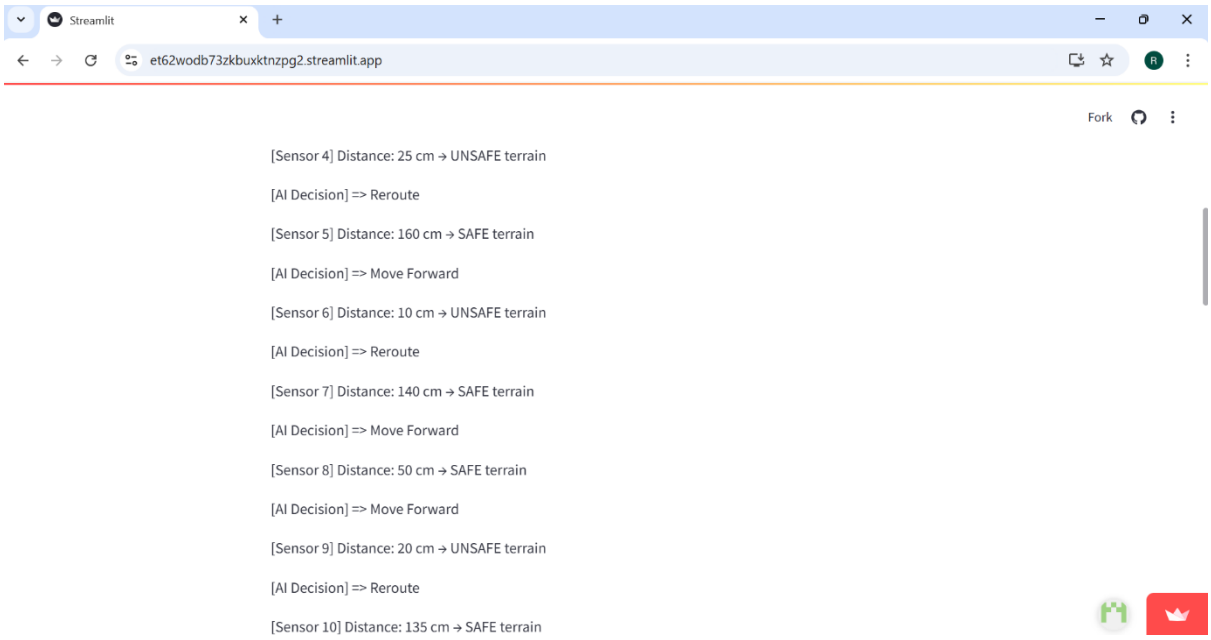
Performance Metrics Screenshot for Phase 4:

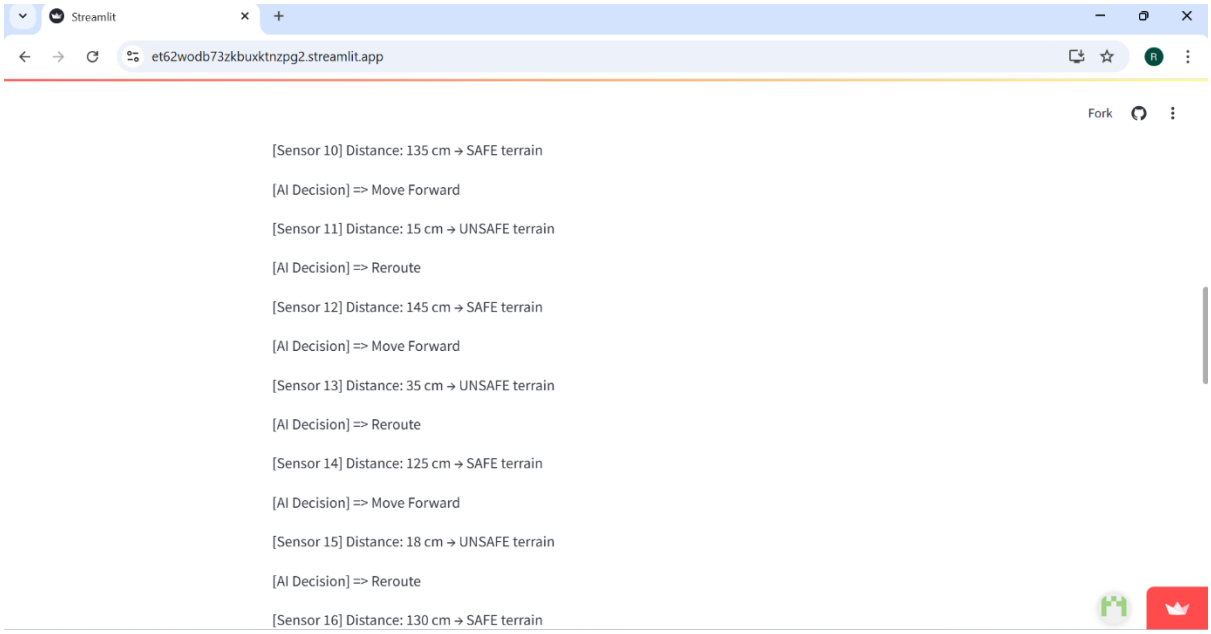



Open
Downloads
Search Downloads
Organize
New folder
Name
Date modified
Last week
dataset
5/7/2025 8:33 PM
DBMS
5/9/2025 10:37 AM
Desktop
Downloads
Documents
Pictures
Music
Videos
File name: dataset
Microsoft Excel Comma Separat
Open
Cancel
Fork
nomous Vehicles
making using sensor data and basic AI logic.
ocesses distance data and makes real-time
Drag and drop file here
Limit 200MB per file • CSV
Browse files
Please upload a dataset.csv file to begin.


Streamlit
et62wodb73zkbuxktnzpg2.streamlit.app
Fork
AI-EBPL – Autonomous Vehicles and Robotics
This simulator demonstrates autonomous decision-making using sensor data and basic AI logic. Upload your dataset to simulate how an AI system processes distance data and makes real-time navigation decisions.
Upload your dataset.csv file
Drag and drop file here
Limit 200MB per file • CSV
Browse files
dataset.csv 0.9KB
Start Simulation


Streamlit
et62wodb73zkbuxktnzpg2.streamlit.app
Fork
Upload your dataset.csv file
Drag and drop file here
Limit 200MB per file • CSV
Browse files
dataset.csv 0.9KB
Start Simulation
[Sensor 1] Distance: 150 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 2] Distance: 30 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 3] Distance: 120 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 4] Distance: 25 cm → UNSAFE terrain


Streamlit
et62wodb73zkbuxktnzpg2.streamlit.app
Fork
[Sensor 4] Distance: 25 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 5] Distance: 160 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 6] Distance: 10 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 7] Distance: 140 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 8] Distance: 50 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 9] Distance: 20 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 10] Distance: 135 cm → SAFE terrain


Streamlit
et62wodb73zkbuxktnzpg2.streamlit.app
Fork
[Sensor 10] Distance: 135 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 11] Distance: 15 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 12] Distance: 145 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 13] Distance: 35 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 14] Distance: 125 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 15] Distance: 18 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 16] Distance: 130 cm → SAFE terrain

Streamlit
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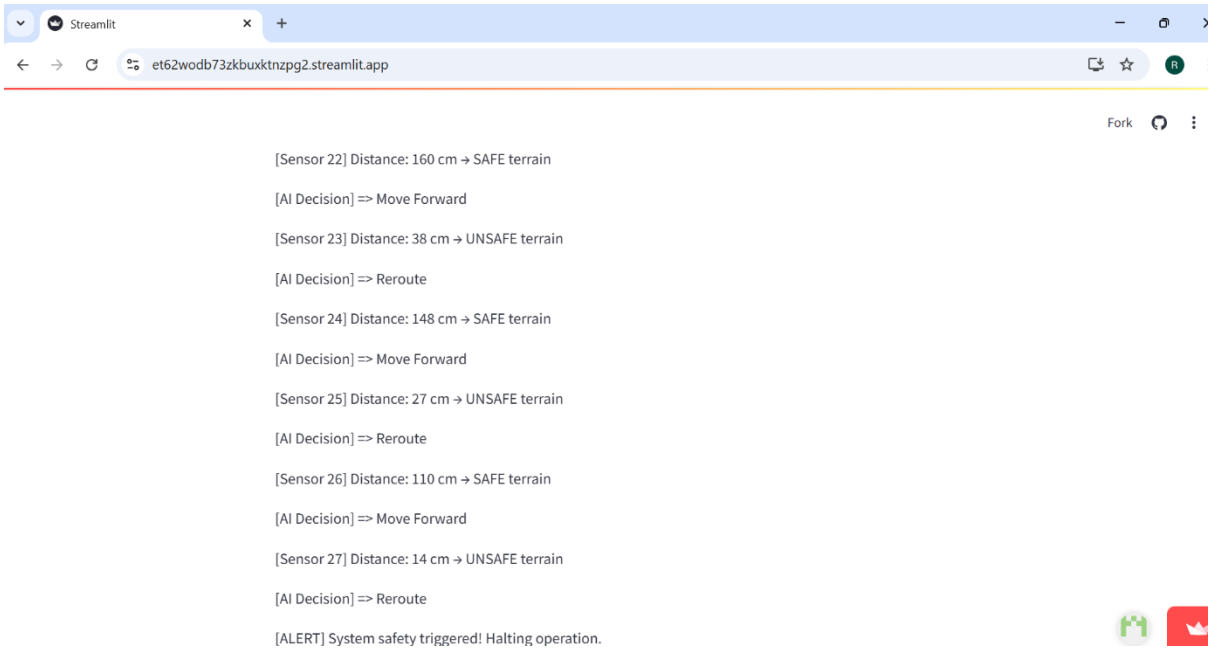
Fork
[Sensor 16] Distance: 130 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 17] Distance: 22 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 18] Distance: 155 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 19] Distance: 28 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 20] Distance: 142 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 21] Distance: 32 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 22] Distance: 160 cm → SAFE terrain


Streamlit
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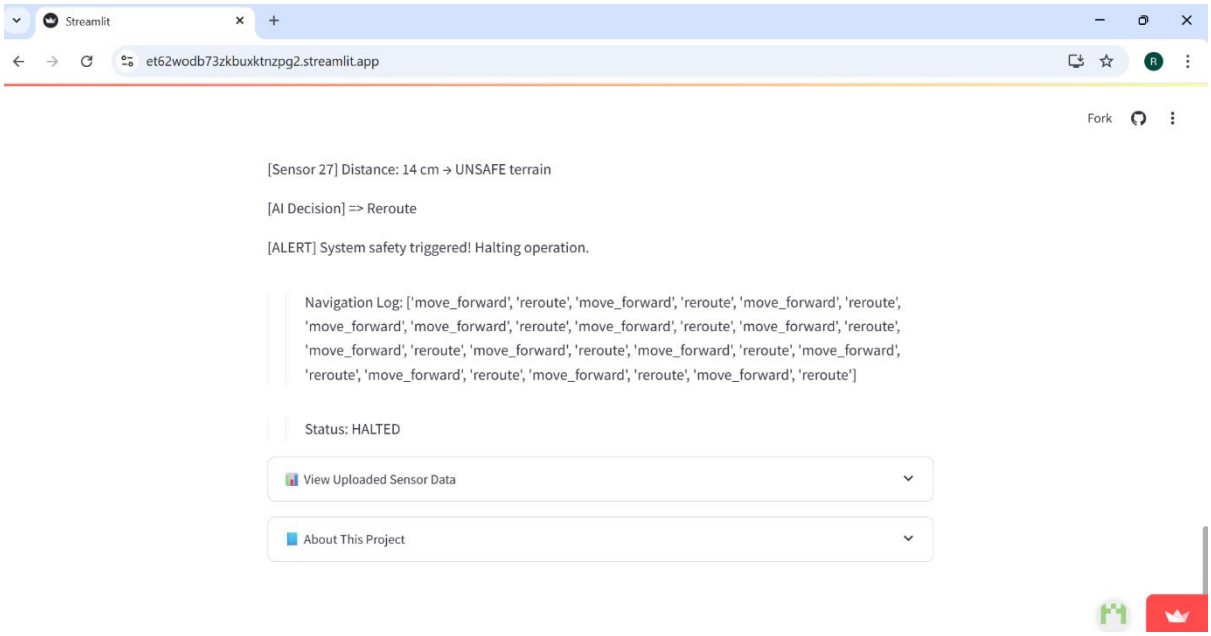
Fork
[Sensor 22] Distance: 160 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 23] Distance: 38 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 24] Distance: 148 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 25] Distance: 27 cm → UNSAFE terrain
[AI Decision] => Reroute
[Sensor 26] Distance: 110 cm → SAFE terrain
[AI Decision] => Move Forward
[Sensor 27] Distance: 14 cm → UNSAFE terrain
[AI Decision] => Reroute
[ALERT] System safety triggered! Halting operation.


Streamlit
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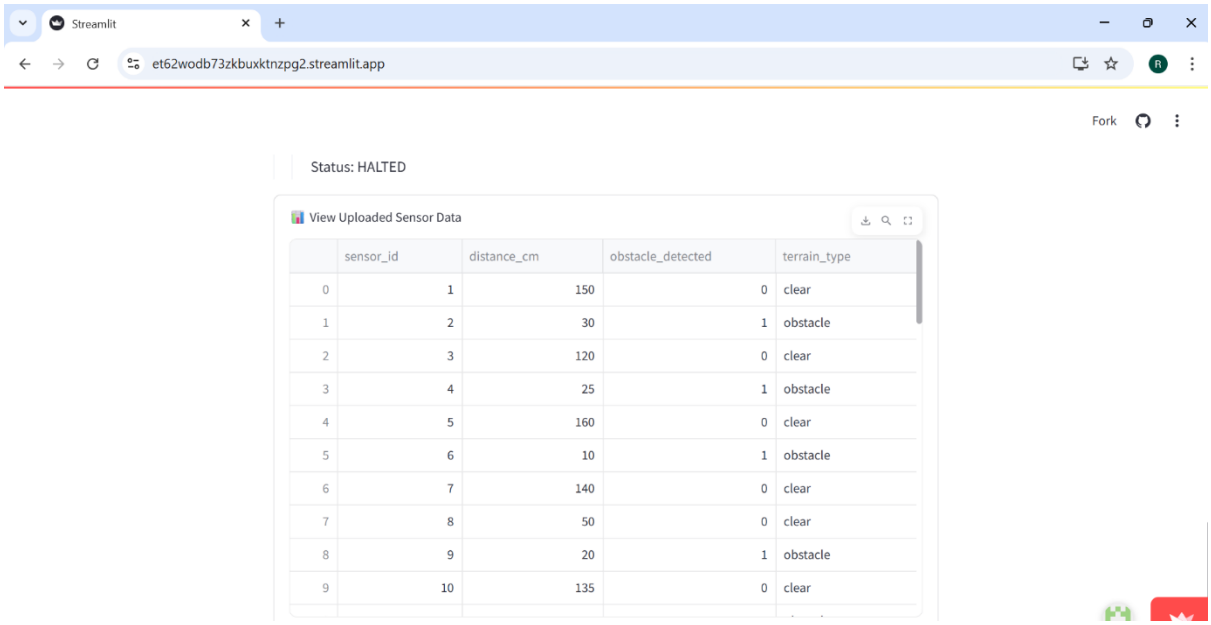
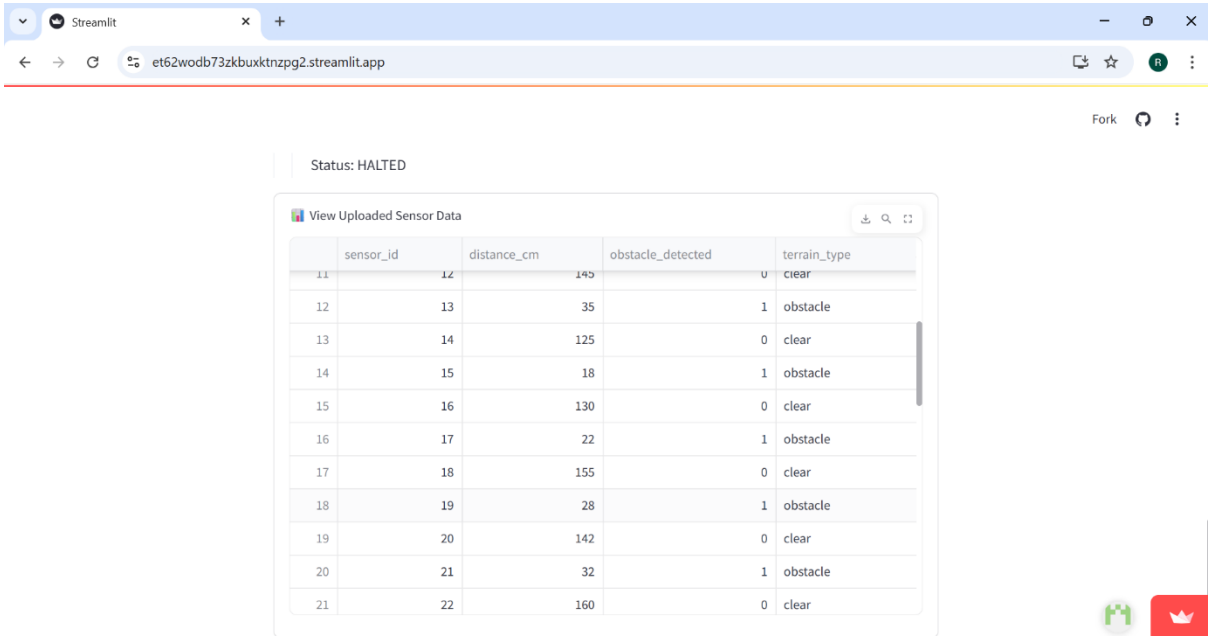
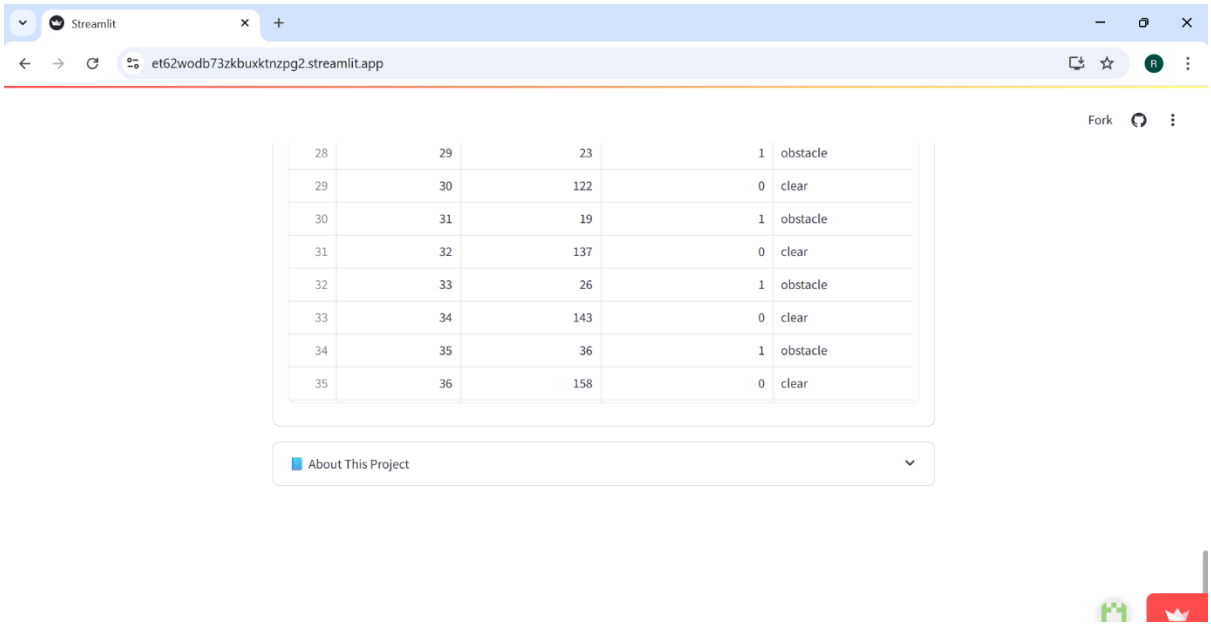
Fork
[Sensor 27] Distance: 14 cm → UNSAFE terrain
[AI Decision] => Reroute
[ALERT] System safety triggered! Halting operation.
Navigation Log: ['move_forward', 'reroute', 'move_forward', 'reroute', 'move_forward', 'reroute', 'move_forward', 'move_forward', 'reroute', 'move_forward', 'reroute', 'move_forward', 'reroute', 'move_forward', 'reroute', 'move_forward', 'reroute', 'move_forward', 'reroute', 'move_forward', 'reroute', 'move_forward', 'reroute', 'move_forward', 'reroute']
Status: HALTED
View Uploaded Sensor Data
About This Project

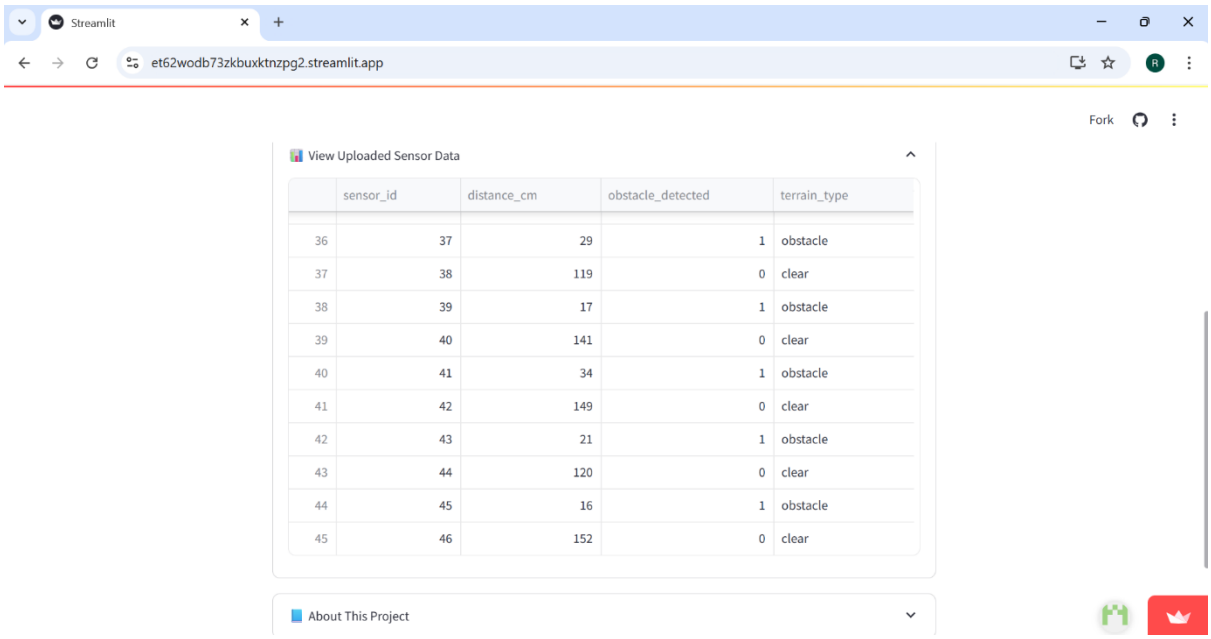


	sensor_id	distance_cm	obstacle_detected	terrain_type
0	1	150	0	clear
1	2	30	1	obstacle
2	3	120	0	clear
3	4	25	1	obstacle
4	5	160	0	clear
5	6	10	1	obstacle
6	7	140	0	clear
7	8	50	0	clear
8	9	20	1	obstacle
9	10	135	0	clear



	sensor_id	distance_cm	obstacle_detected	terrain_type
11	12	145	0	clear
12	13	35	1	obstacle
13	14	125	0	clear
14	15	18	1	obstacle
15	16	130	0	clear
16	17	22	1	obstacle
17	18	155	0	clear
18	19	28	1	obstacle
19	20	142	0	clear
20	21	32	1	obstacle
21	22	160	0	clear


Streamlit
et62wodb73zkbuxktnzpg2.streamlit.app
Fork
28 29 23 1 obstacle
29 30 122 0 clear
30 31 19 1 obstacle
31 32 137 0 clear
32 33 26 1 obstacle
33 34 143 0 clear
34 35 36 1 obstacle
35 36 158 0 clear
About This Project


Streamlit
et62wodb73zkbuxktnzpg2.streamlit.app
Fork
View Uploaded Sensor Data
sensor_id distance_cm obstacle_detected terrain_type
36 37 29 1 obstacle
37 38 119 0 clear
38 39 17 1 obstacle
39 40 141 0 clear
40 41 34 1 obstacle
41 42 149 0 clear
42 43 21 1 obstacle
43 44 120 0 clear
44 45 16 1 obstacle
45 46 152 0 clear
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