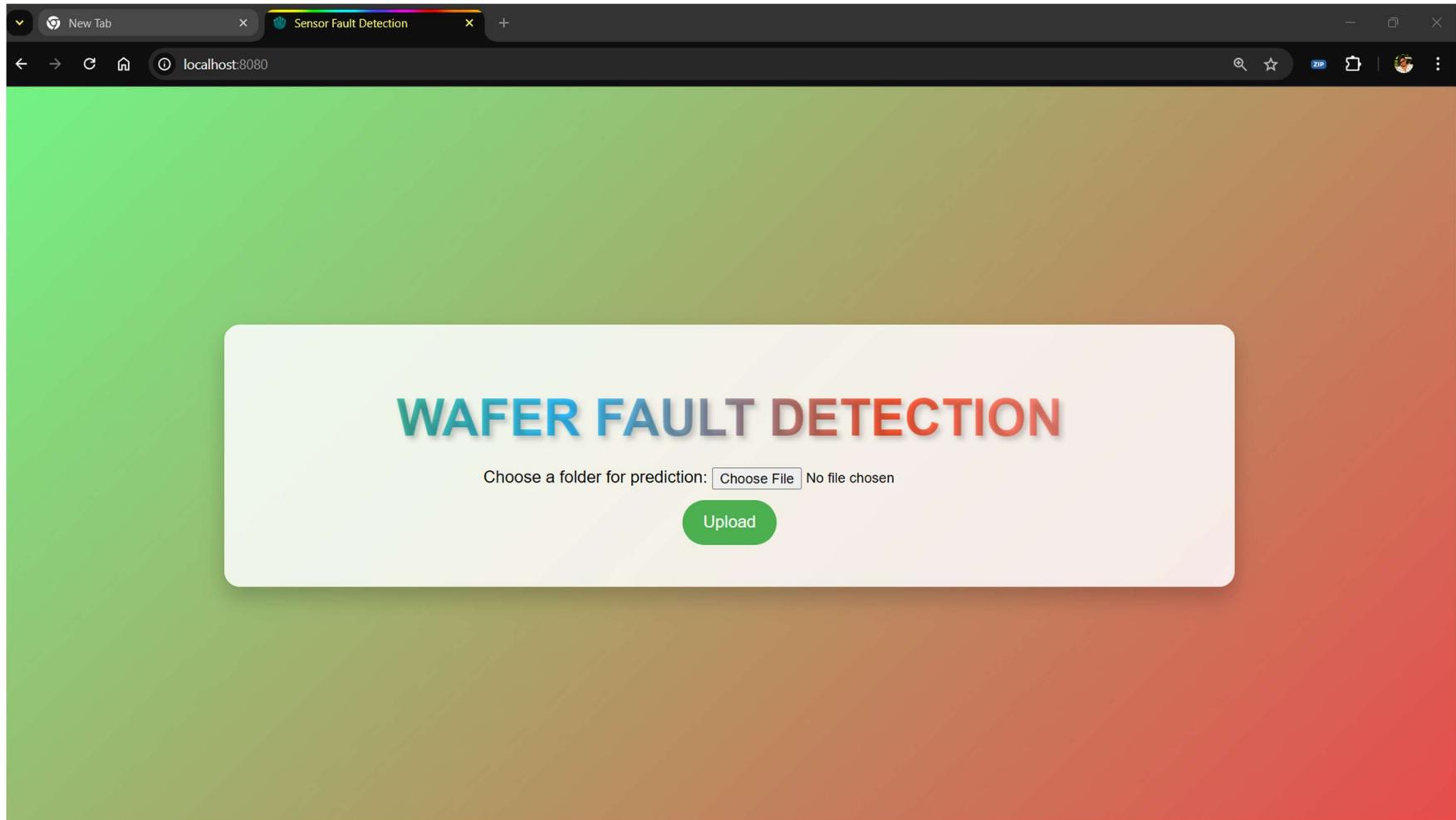
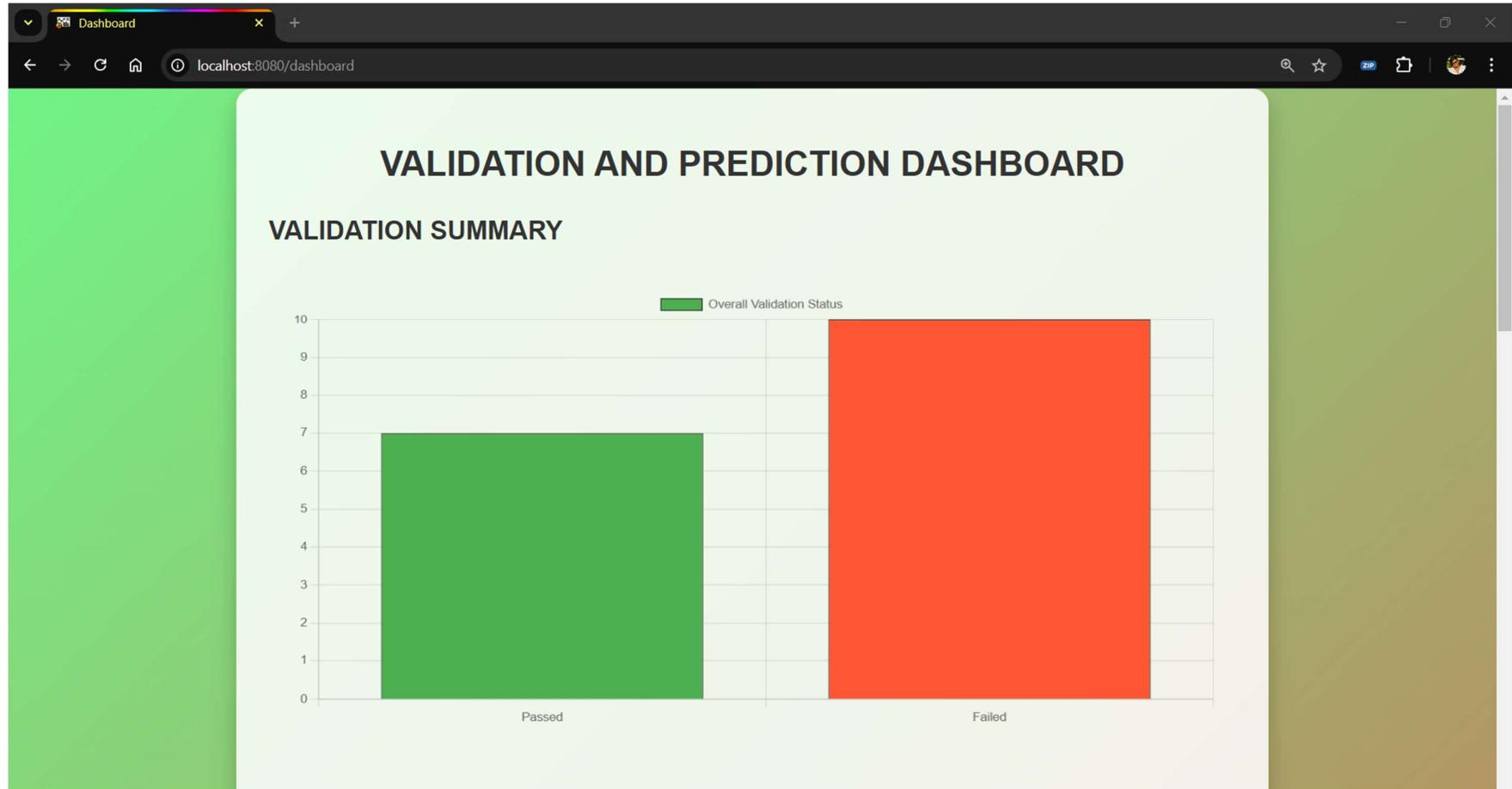


**WIREFRAME
WAFER FAULT DETECTION
Jenna Raveenkumar**

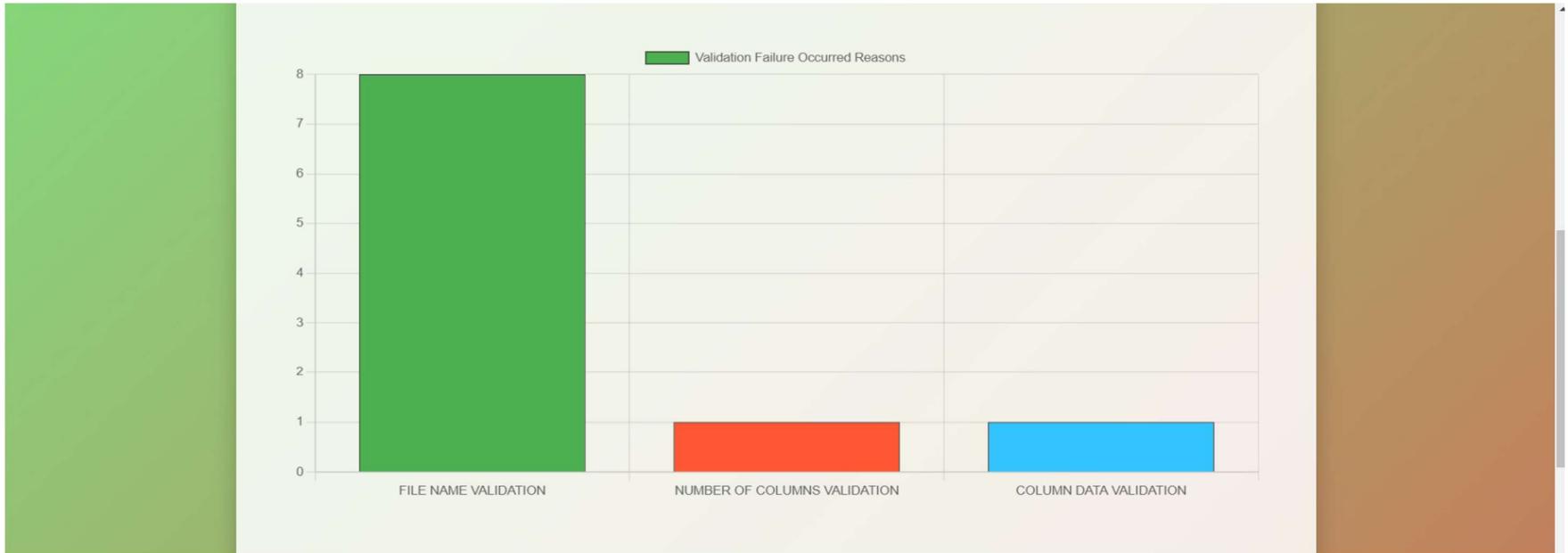
Main Page:

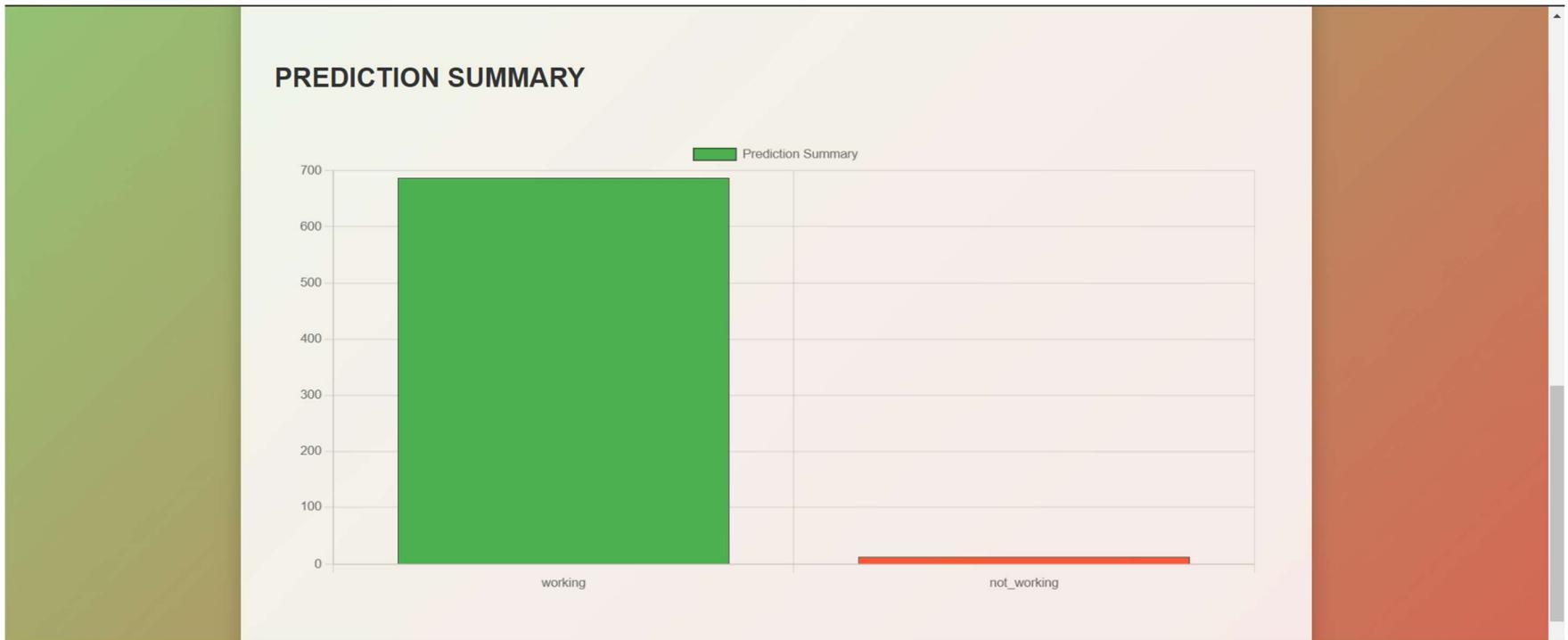


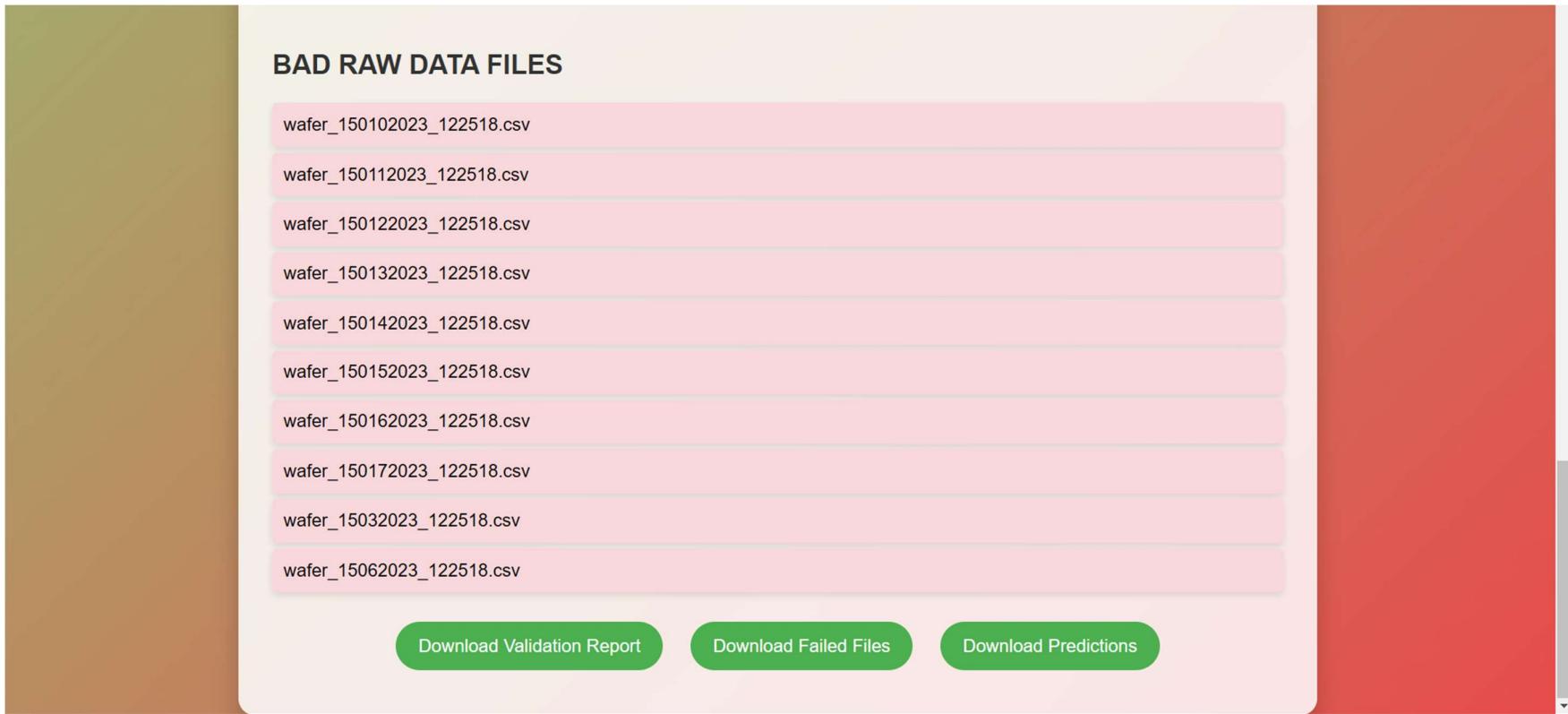
Prediction Dashboard:



WIREFRAME







WIREFRAME

Validation_logs.xlsx

The screenshot shows a Microsoft Excel spreadsheet titled "validation_logs (2) - Excel". The table has the following structure:

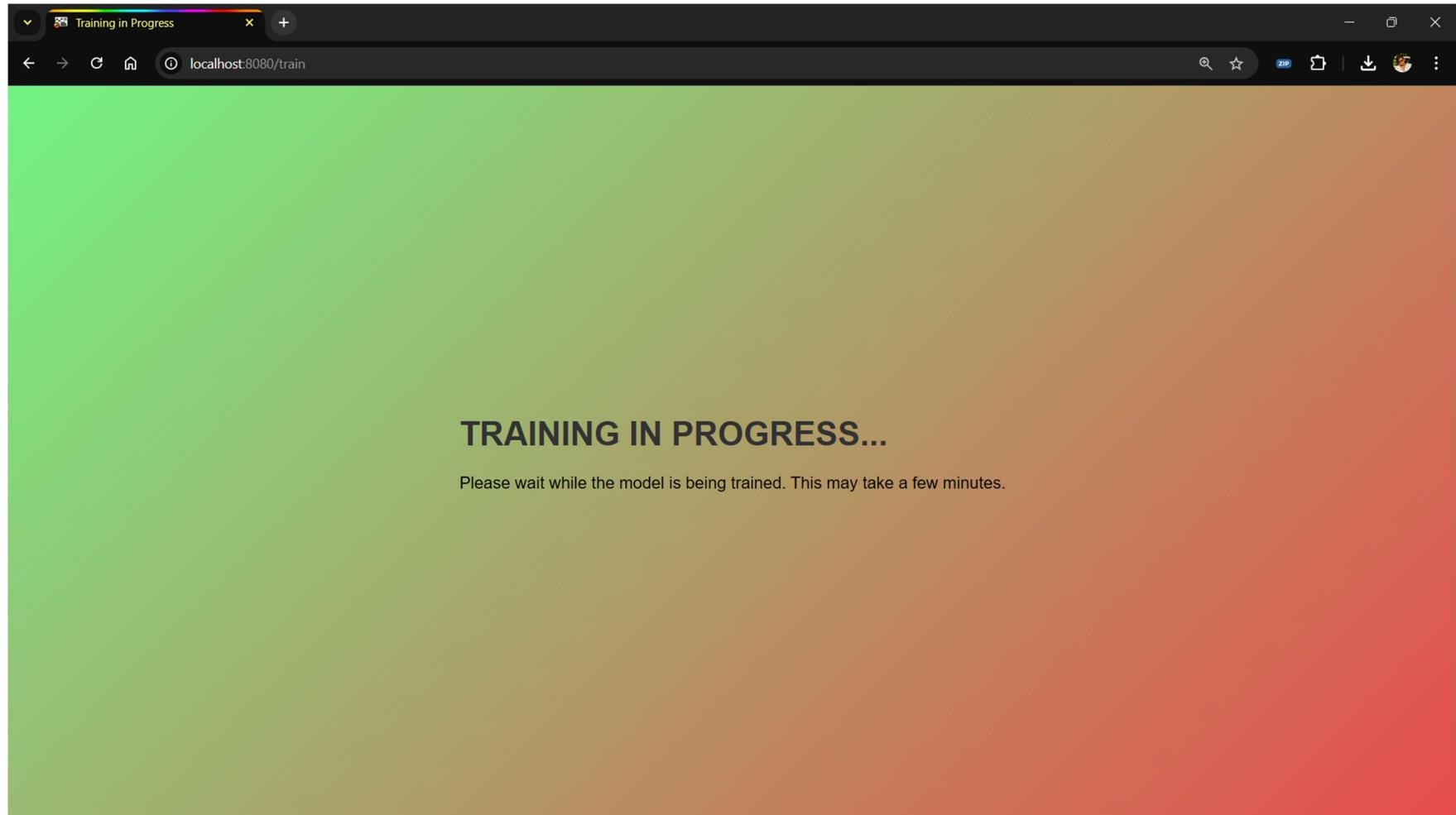
SLNO	DATE	FILENAME	STATUS	STATUS_REASON
1	2024-11-02	wafer_150102023_122518.csv	Failed	FILE NAME VALIDATION
2	2024-11-02	wafer_150112023_122518.csv	Failed	FILE NAME VALIDATION
3	2024-11-02	wafer_15012023_122518.csv	Passed	FILE NAME VALIDATION
4	2024-11-02	wafer_15012023_122518.csv	Passed	NUMBER OF COLUMNS VALIDATION
5	2024-11-02	wafer_15012023_122518.csv	Passed	COLUMNDATA_WHOLE_MISSING_VALIDA
6	2024-11-02	wafer_15012023_122518.csv	Passed	COLUMN DATA VALIDATION
7	2024-11-02	wafer_15012023_122518.csv	Failed	FILE NAME VALIDATION
8	2024-11-02	wafer_150132023_122518.csv	Failed	FILE NAME VALIDATION
9	2024-11-02	wafer_150142023_122518.csv	Failed	FILE NAME VALIDATION
10	2024-11-02	wafer_150152023_122518.csv	Failed	FILE NAME VALIDATION
11	2024-11-02	wafer_150162023_122518.csv	Failed	FILE NAME VALIDATION
12	2024-11-02	wafer_150172023_122518.csv	Failed	FILE NAME VALIDATION
13	2024-11-02	wafer_15022023_122518.csv	Passed	FILE NAME VALIDATION
14	2024-11-02	wafer_15022023_122518.csv	Passed	NUMBER OF COLUMNS VALIDATION
15	2024-11-02	wafer_15022023_122518.csv	Passed	COLUMNDATA_WHOLE_MISSING_VALIDA
16	2024-11-02	wafer_15022023_122518.csv	Passed	COLUMN DATA VALIDATION
17	2024-11-02	wafer_15032023_122518.csv	Passed	FILE NAME VALIDATION
18	2024-11-02	wafer_15032023_122518.csv	Failed	NUMBER OF COLUMNS VALIDATION
19	2024-11-02	wafer_15042023_122518.csv	Passed	FILE NAME VALIDATION
20	2024-11-02	wafer_15042023_122518.csv	Passed	NUMBER OF COLUMNS VALIDATION
21	2024-11-02	wafer_15042023_122518.csv	Passed	COLUMNDATA_WHOLE_MISSING_VALIDA
22	2024-11-02	wafer_15042023_122518.csv	Passed	COLUMN DATA VALIDATION
23	2024-11-02	wafer_15052023_122518.csv	Passed	FILE NAME VALIDATION
24	2024-11-02	wafer_15052023_122518.csv	Passed	NUMBER OF COLUMNS VALIDATION
25	2024-11-02	wafer_15052023_122518.csv	Passed	COLUMNDATA_WHOLE_MISSING_VALIDA
26	2024-11-02	wafer_15052023_122518.csv	Passed	COLUMN DATA VALIDATION
27	2024-11-02	wafer_15062023_122518.csv	Passed	FILE NAME VALIDATION
28	2024-11-02	wafer_15062023_122518.csv	Passed	NUMBER OF COLUMNS VALIDATION
29	2024-11-02	wafer_15062023_122518.csv	Passed	COLUMNDATA_WHOLE_MISSING_VALIDA
30	2024-11-02	wafer_15062023_122518.csv	Failed	COLUMN DATA VALIDATION
31	2024-11-02	wafer_15062023_122518.csv	Passed	COLUMN DATA VALIDATION FAILED, MISMATCH COLUMN LIST:[{'schema_file': 'Column_name:Sensor-6, Column_dtype:float64', 'raw_file': 'Column_name:Sensor-6, Column_dtype:int64'}]
32	2024-11-02	wafer_15072023_122518.csv	Passed	FILE NAME VALIDATION
33	2024-11-02	wafer_15072023_122518.csv	Passed	NUMBER OF COLUMNS VALIDATION
34	2024-11-02	wafer_15072023_122518.csv	Passed	COLUMNDATA_WHOLE_MISSING_VALIDA
35	2024-11-02	wafer_15072023_122518.csv	Passed	COLUMN DATA VALIDATION
36	2024-11-02	wafer_15082023_122518.csv	Passed	FILE NAME VALIDATION
37	2024-11-02	wafer_15082023_122518.csv	Passed	NUMBER OF COLUMNS VALIDATION
38	2024-11-02	wafer_15082023_122518.csv	Passed	COLUMNDATA_WHOLE_MISSING_VALIDA
39	2024-11-02	wafer_15082023_122518.csv	Passed	COLUMN DATA VALIDATION

WIREFRAME

Predictions.csv

A	B
1	Wafer
2	Wafer-223
3	Working
4	Wafer-226
5	Working
6	Wafer-228
7	Working
8	Wafer-233
9	Working
10	Wafer-234
11	Working
12	Wafer-235
13	Working
14	Wafer-239
15	Working
16	Wafer-242
17	Working
18	Wafer-258
19	Working
20	Wafer-264
21	Working
22	Wafer-270
23	Working
24	Wafer-282
25	Working
26	Wafer-901
27	Working
28	Wafer-904
29	Working
30	Wafer-908
31	Working
32	Wafer-920
33	Working
34	Wafer-929
35	Working
36	Wafer-936
37	Working
38	Wafer-945
39	Working
40	Wafer-948
41	Working
42	Wafer-951
43	Working
44	Wafer-955
45	NotWorking
46	Wafer-958
47	Working
48	Wafer-967
49	Working
50	Wafer-974
51	Working
52	Wafer-975
53	Working
54	Wafer-976
55	Working
56	Wafer-979
57	Working
58	Wafer-981
59	Working
60	Wafer-983
61	Working
62	Wafer-988
63	NotWorking
64	Wafer-991
65	Working
66	Wafer-995
67	Working
68	Wafer-999
69	Working
70	Wafer-1000
71	Working
72	Wafer-1103
73	Working
74	Wafer-1109
75	Working
76	Wafer-1113
77	Working

Training Process:

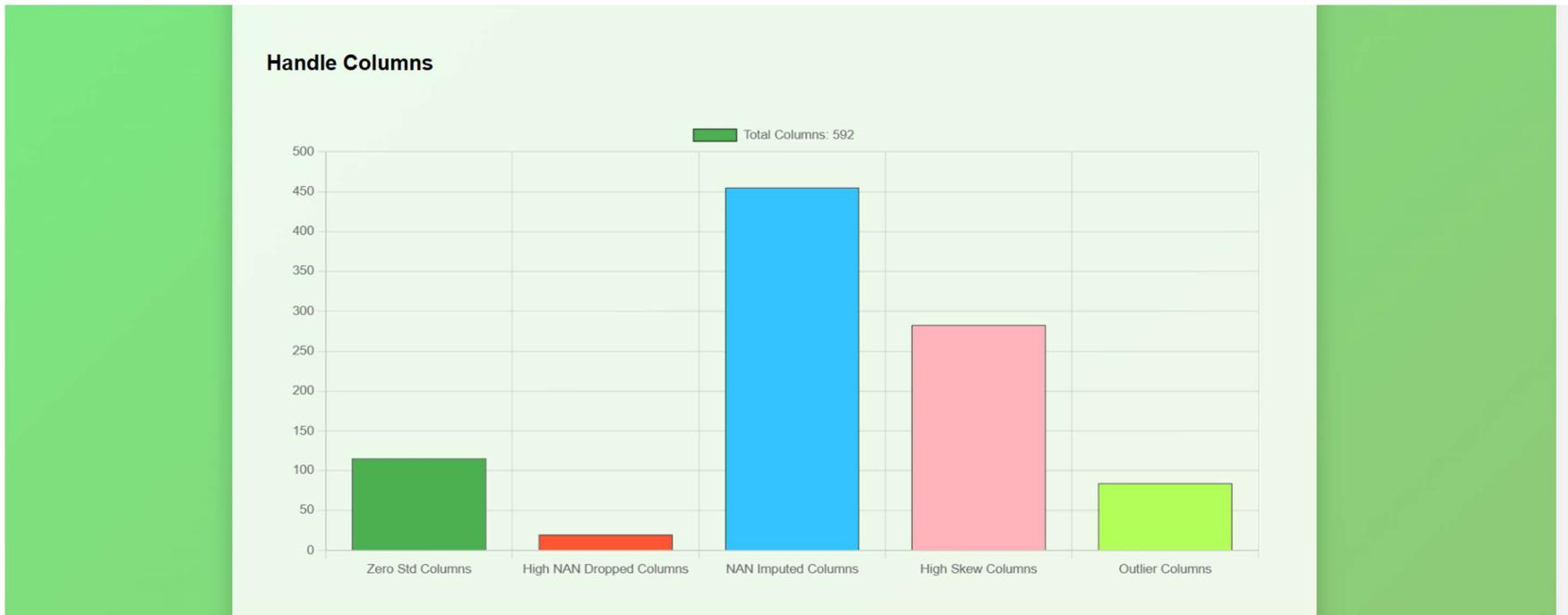


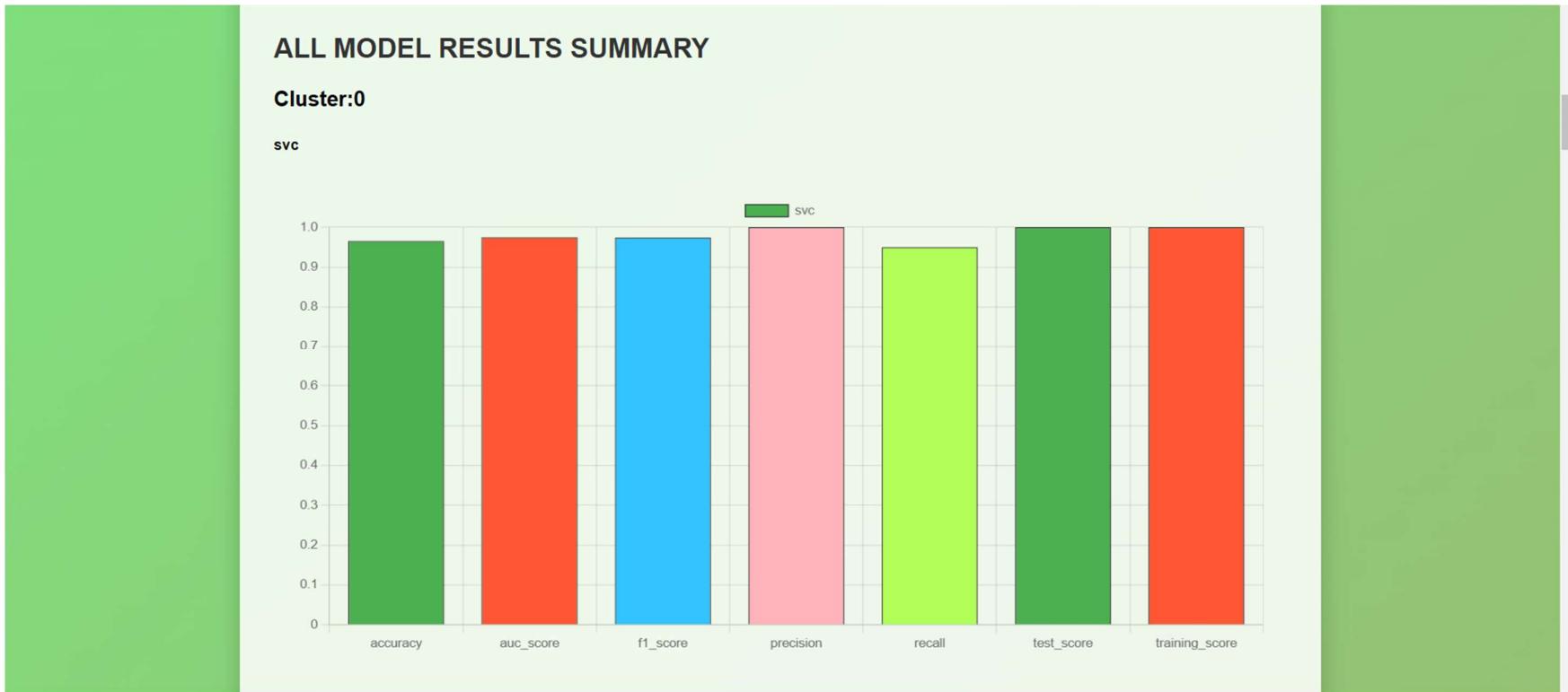
Training Dashboard:

The screenshot shows a web browser window titled "Training Report" with the URL "localhost:8080/training_results". The main content area is a white card with the following sections:

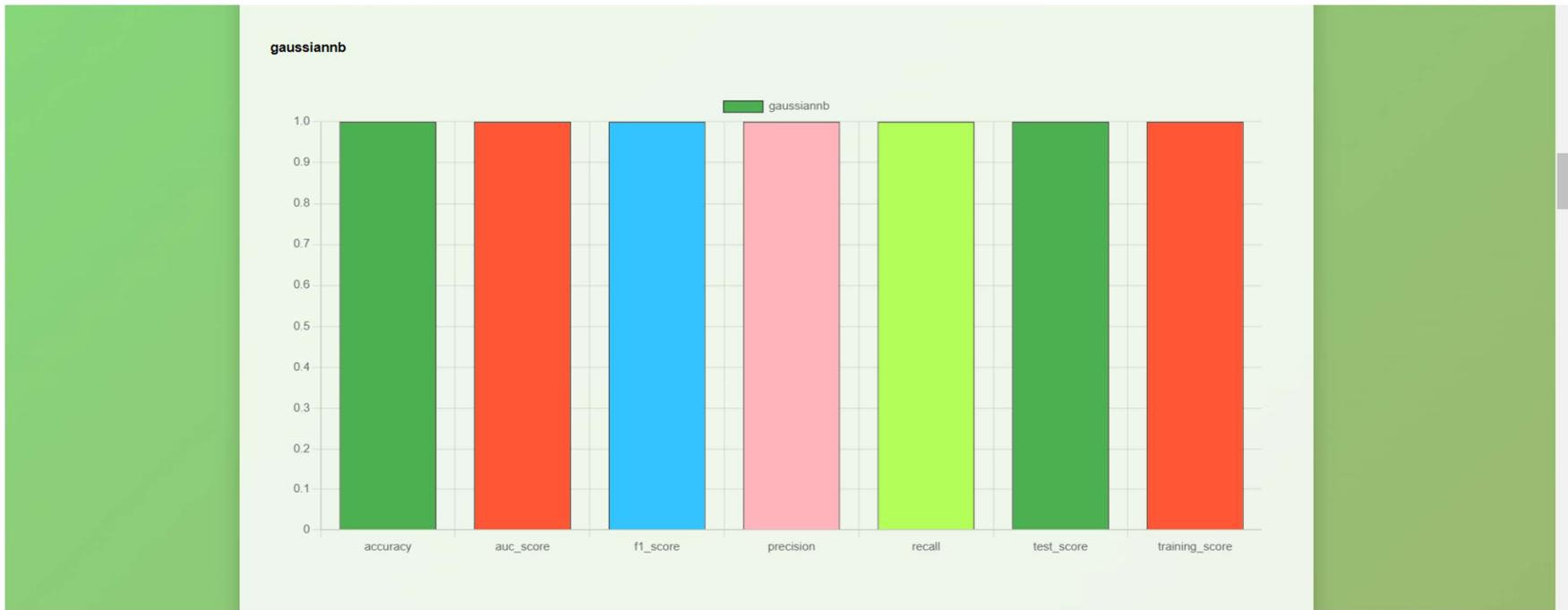
- TRAINING REPORT**
- MODEL PERFORMANCE**
- A table showing model performance across three clusters:

Cluster	Model Name	F1 Score	AUC Score
Cluster 0	xgbclassifier	1.0	1.0
Cluster 1	randomforest	1.0	1.0
Cluster 2	xgbclassifier	1.0	1.0
- PREPROCESSING SUMMARY**
- Handle Rows**
- A chart showing a distribution of total records (837) from 0.3 to 1.0.





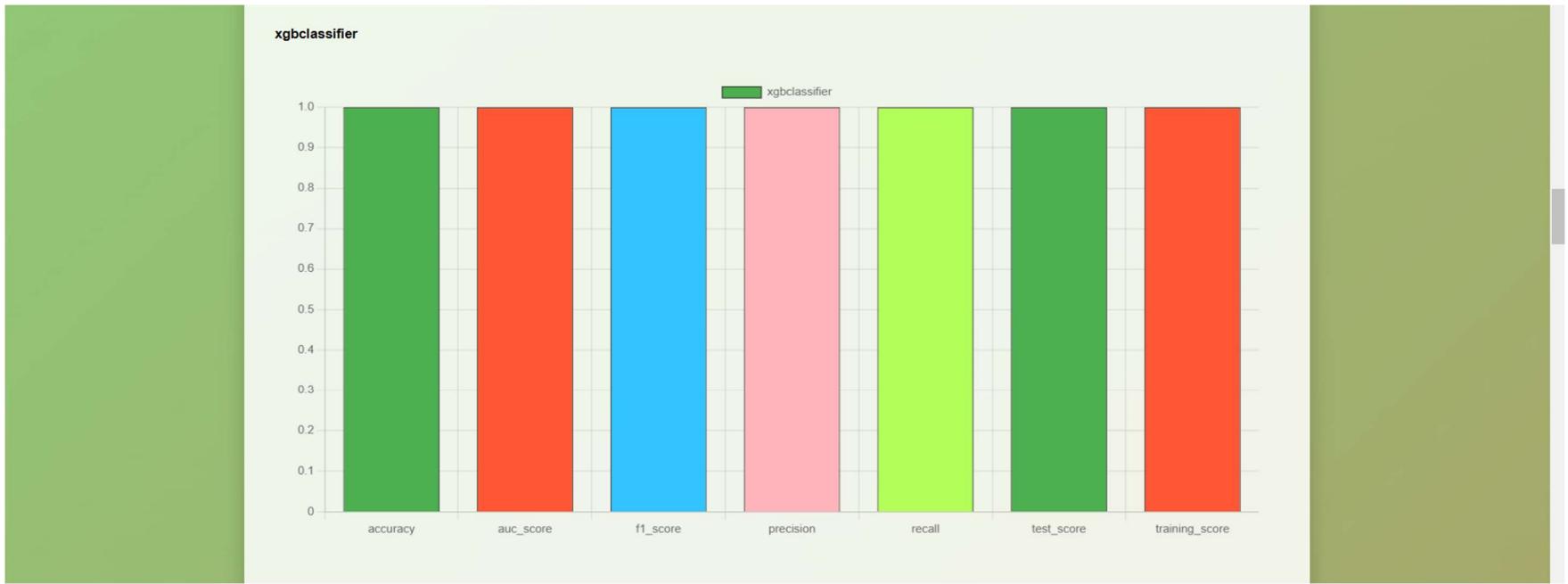
WIREFRAME

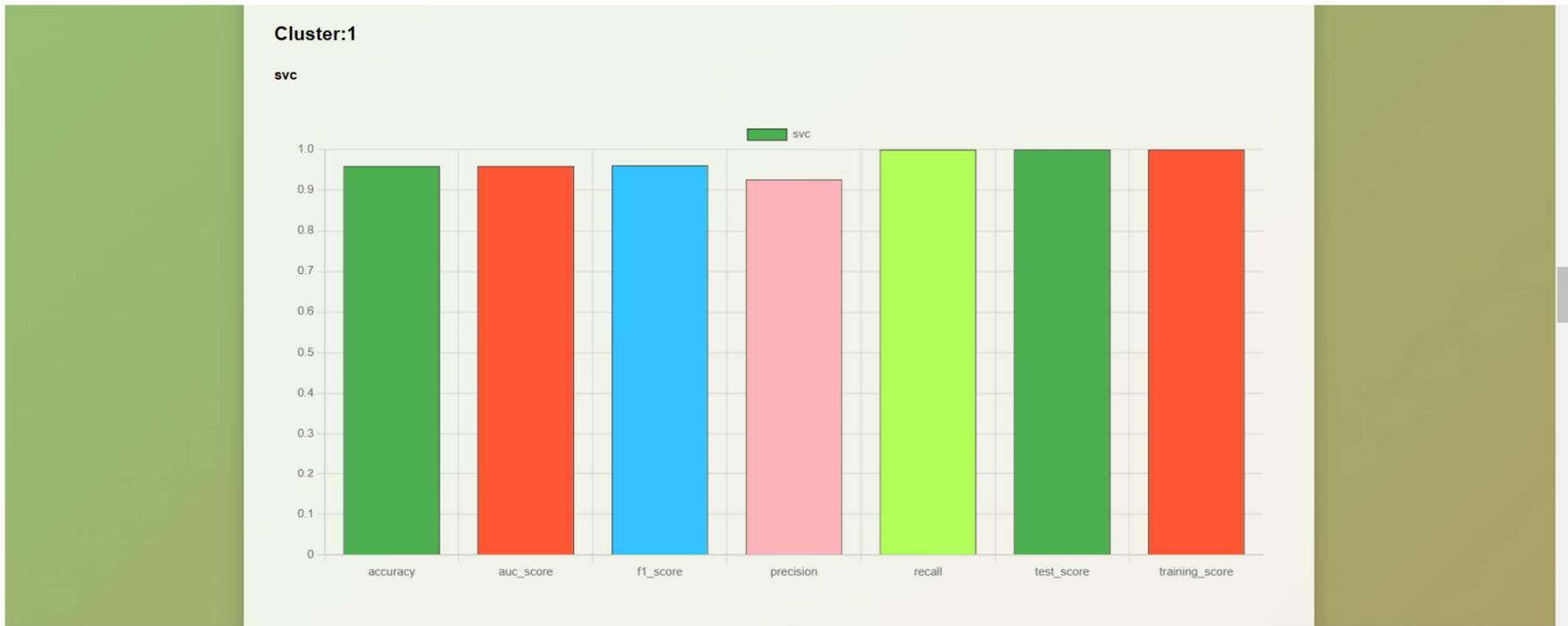


WIREFRAME

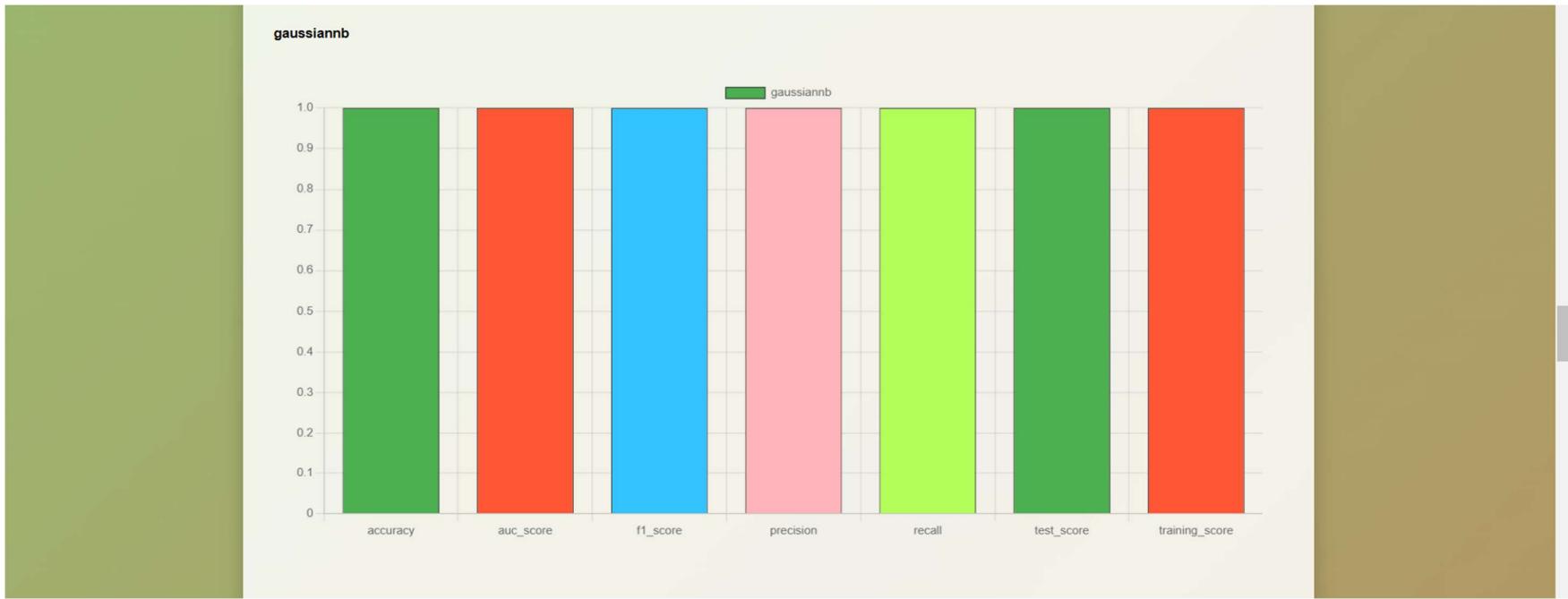


WIREFRAME





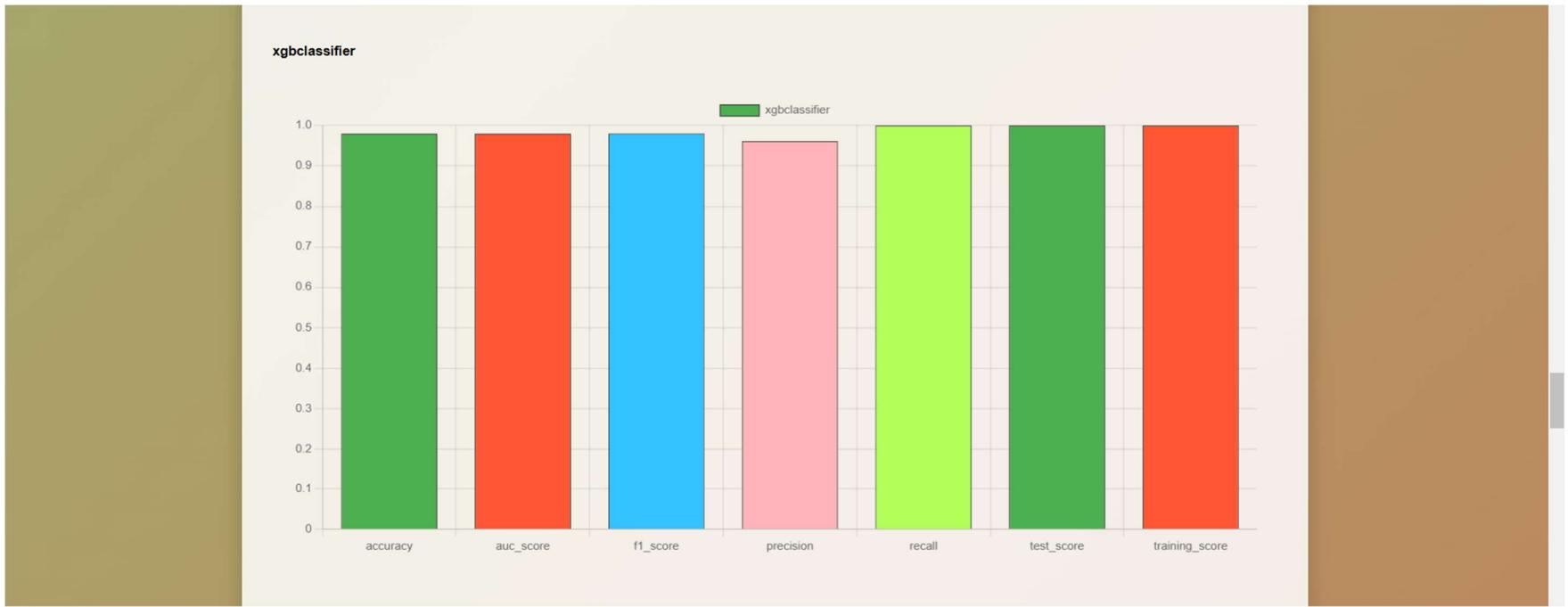
WIREFRAME



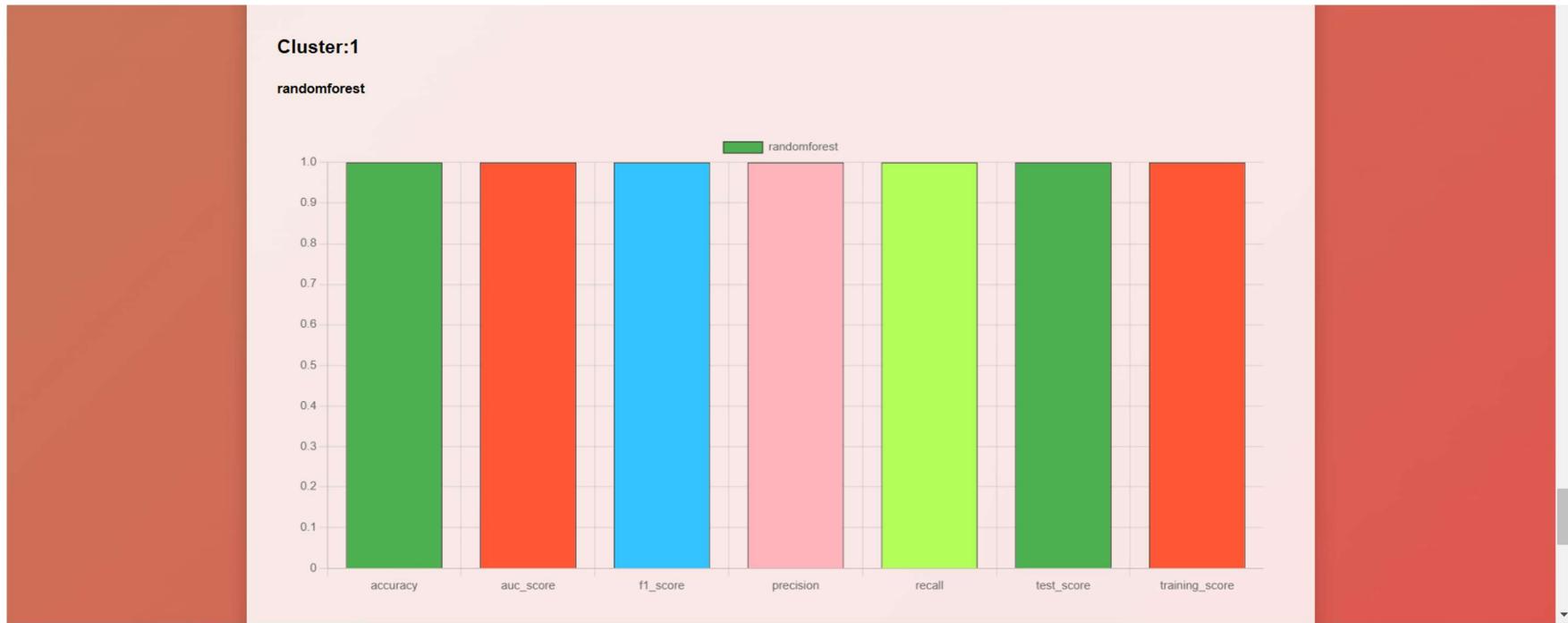
WIREFRAME



WIREFRAME







WIREFRAME



Mlflow:

The screenshot shows the MLflow UI interface. At the top, there's a navigation bar with tabs for 'Training Report' and 'MLflow'. Below the navigation bar, the URL is `dagshub.com/Raveenkumar/SENSOR-FAULT-DETECTION.mlflow/#/experiments/28?searchFilter=&orderByKey=attributes.start_time&orderByAsc=false&startTime=ALL&lifec...`. On the right side of the header, there are GitHub and Docs links.

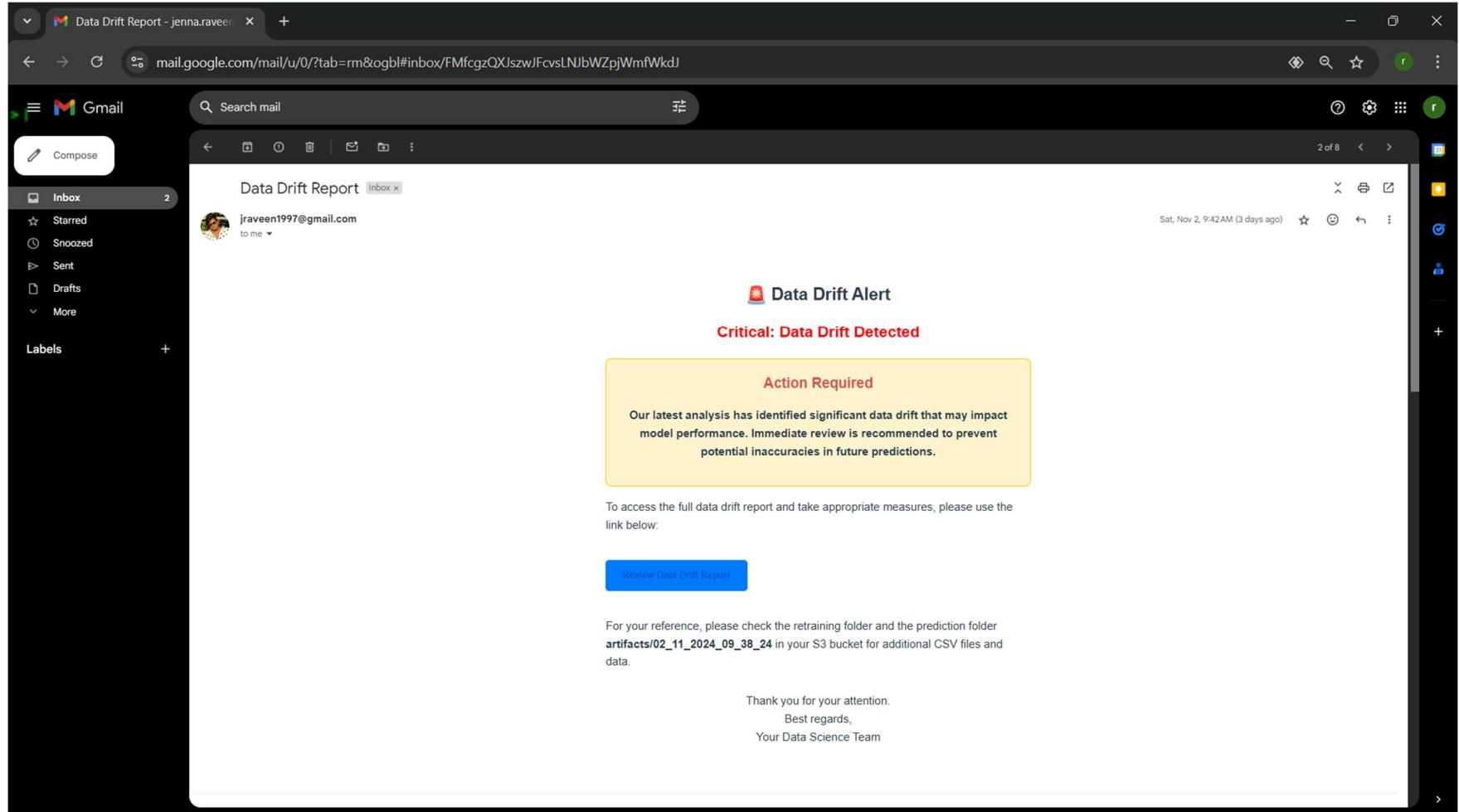
The main content area is titled 'Experiments' and shows a search bar with the query `metrics.rmse < 1 and params.model = "tree"`. Below the search bar are filters for 'Time created', 'State: Active', 'Datasets', and 'Sort: Created'. There are also buttons for 'Columns', 'Group by', 'Share', and '+ New run'.

The table displays 12 matching runs, each with a checkbox, a run name (prefixed with a color-coded circle), the creation time (e.g., 9 minutes ago, 10 minutes ago, etc.), the dataset used (e.g., dataset (85cf9f05) Training), duration, source (app.py), and model type (xgboost or sklearn). The table has columns for Run Name, Created, Dataset, Duration, Source, and Models.

	Run Name	Created	Dataset	Duration	Source	Models
<input type="checkbox"/>	Cluster_2_xgbclassifier	9 minutes ago	dataset (85cf9f05) Training	23.5s	app.py	xgboost
<input type="checkbox"/>	Cluster_2_randomforest	10 minutes ago	dataset (85cf9f05) Training	23.9s	app.py	sklearn
<input type="checkbox"/>	Cluster_2_gaussiannb	10 minutes ago	dataset (85cf9f05) Training	19.0s	app.py	sklearn
<input type="checkbox"/>	Cluster_2_svc	10 minutes ago	dataset (85cf9f05) Training	20.3s	app.py	sklearn
<input type="checkbox"/>	Cluster_1_xgbclassifier	11 minutes ago	dataset (978f30db) Training	22.5s	app.py	xgboost
<input type="checkbox"/>	Cluster_1_randomforest	11 minutes ago	dataset (978f30db) Training	23.3s	app.py	sklearn
<input type="checkbox"/>	Cluster_1_gaussiannb	12 minutes ago	dataset (978f30db) Training	20.5s	app.py	sklearn
<input type="checkbox"/>	Cluster_1_svc	12 minutes ago	dataset (978f30db) Training	18.6s	app.py	sklearn
<input type="checkbox"/>	Cluster_0_xgbclassifier	13 minutes ago	dataset (6f17aa47) Training	23.4s	app.py	xgboost
<input type="checkbox"/>	Cluster_0_randomforest	13 minutes ago	dataset (6f17aa47) Training	23.7s	app.py	sklearn
<input type="checkbox"/>	Cluster_0_gaussiannb	13 minutes ago	dataset (6f17aa47) Training	18.9s	app.py	sklearn
<input type="checkbox"/>	Cluster_0_svc	14 minutes ago	dataset (6f17aa47) Training	42.9s	app.py	sklearn

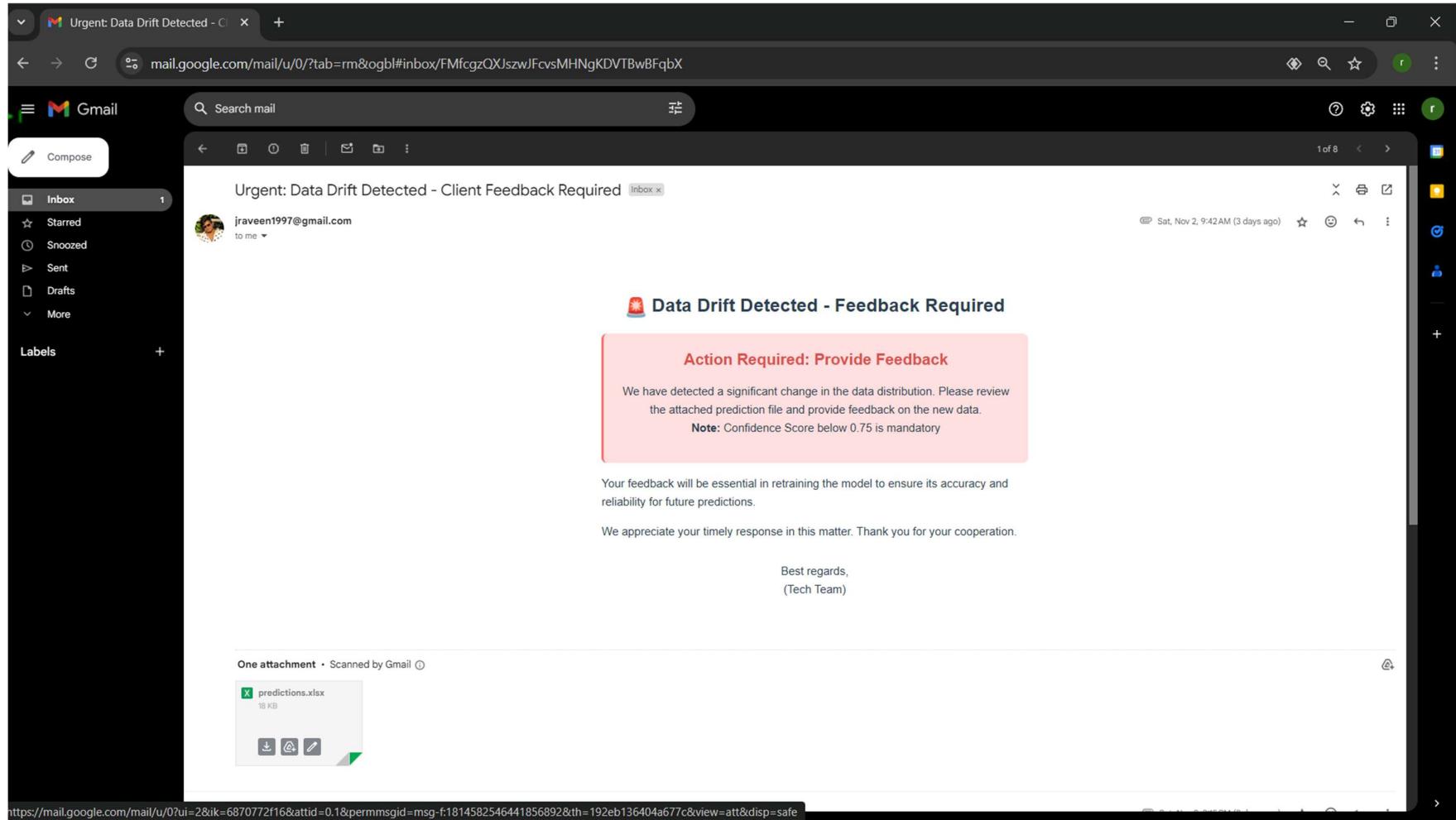
At the bottom left, there's a checkbox next to 'training_05_11_2024_15_33...' and a note '12 matching runs'.

Drift Detection: Backteam mail



WIREFRAME

Drift Detection: Client mail



WIREFRAME

Feedback File:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1	Wafer	Output	Confidence	Feedback																							
2	Wafer-204	Working	0.99																								
3	Wafer-206	Working	0.99	NotWorking																							
4	Wafer-208	Working	0.99																								
5	Wafer-209	Working	0.99																								
6	Wafer-211	Working	0.99																								
7	Wafer-213	Working	0.99																								
8	Wafer-214	Working	0.99																								
9	Wafer-217	Working	0.99																								
10	Wafer-221	Working	0.99																								
11	Wafer-224	Working	0.99																								
12	Wafer-227	Working	0.99																								
13	Wafer-232	Working	0.98																								
14	Wafer-233	Working	0.99																								
15	Wafer-236	Working	0.98																								
16	Wafer-238	Working	0.99																								
17	Wafer-241	Working	0.99																								
18	Wafer-244	Working	0.99																								
19	Wafer-245	Working	0.98																								
20	Wafer-246	Working	0.99																								
21	Wafer-248	Working	0.99																								
22	Wafer-249	Working	0.99																								
23	Wafer-253	Working	0.99																								
24	Wafer-256	Working	0.99																								
25	Wafer-258	Working	0.99																								
26	Wafer-259	Working	0.9																								
27	Wafer-260	Working	0.99																								
28	Wafer-266	Working	0.99																								
29	Wafer-268	Working	0.99																								
30	Wafer-269	Working	0.98																								
31	Wafer-273	Working	0.99																								
32	Wafer-275	Working	0.99																								
33	Wafer-276	Working	0.99																								
34	Wafer-277	Working	0.98																								
35	Wafer-278	Working	0.99																								
36	Wafer-280	Working	0.99																								
37	Wafer-285	Working	0.99																								
38	Wafer-287	Working	0.93																								
39	Wafer-288	Working	0.99																								