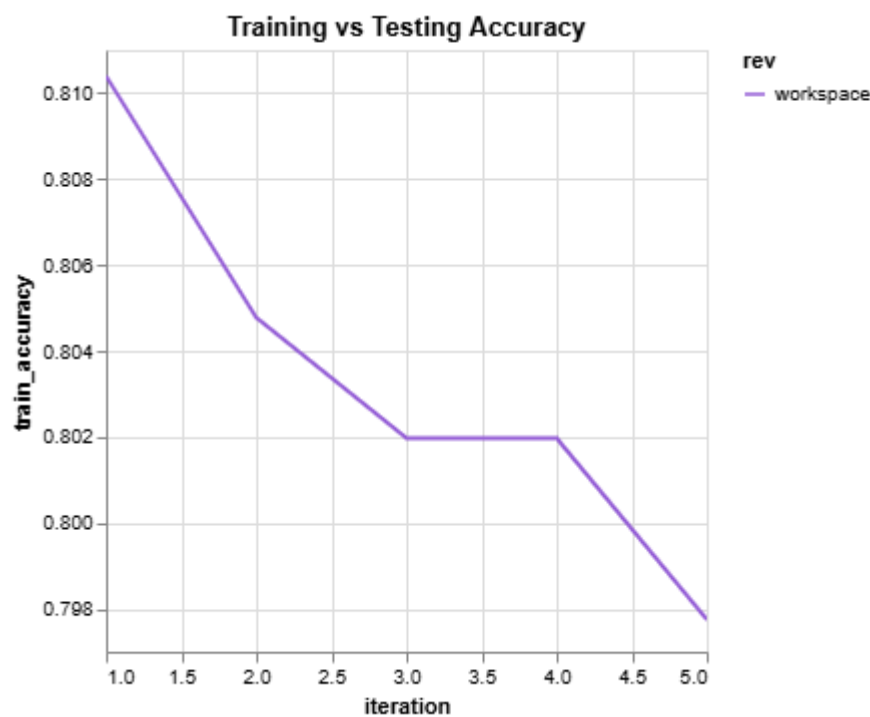


Assignment 3

Experiment 1 — Logistic Regression (max_iter=5)

type: LogisticRegression
params:
max_iter: 5

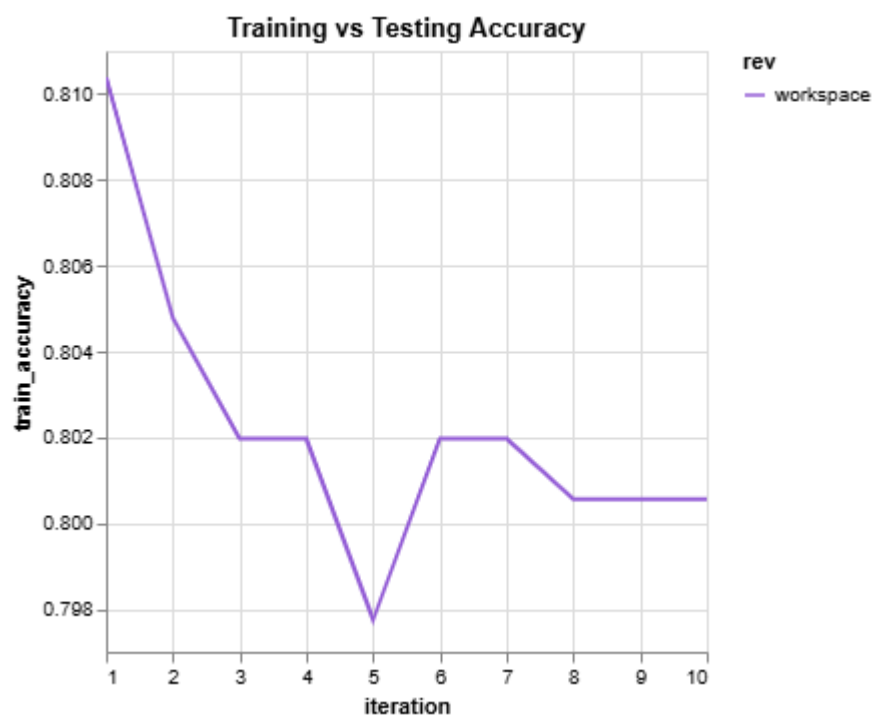
Metric Value
Accuracy **0.81006**
F1-Score **0.80251**



Experiment 2 — Logistic Regression (max_iter=10)

type: LogisticRegression
params:
max_iter: 10

Metric Value
Accuracy **0.80447**
F1-Score **0.79623**



DVC Metrics Difference (compared to Experiment 1):

Metric	Previous	Current	Change
Accuracy	0.81006	0.80447	-0.00559
F1-Score	0.80251	0.79623	-0.00628

Random Forest Experiments

Experiment 3 — RandomForestClassifier (n_estimators=8, max_depth=2)

```
type: RandomForestClassifier
params:
  n_estimators: 8
  max_depth: 2
  random_state: 42
```

Metric	Value
Accuracy	0.78212
F1-Score	0.77184

Experiment 4 — RandomForestClassifier (n_estimators=16, max_depth=2)

```
type: RandomForestClassifier
params:
  n_estimators: 16
```

max_depth: 2
random_state: 42

Metric	Value
Accuracy	0.79330
F1-Score	0.78125

DVC Metrics Difference (compared to Experiment 3):

Metric	Previous	Current	Change
Accuracy	0.78212	0.79330	+0.01117
F1-Score	0.77184	0.78125	+0.00941

Final Comparison

Model Type	Parameters	Accuracy	F1-Score
Logistic Regression	max_iter=5	0.81006	0.80251
Logistic Regression	max_iter=10	0.80447	0.79623
Random Forest	n_estimators=8	0.78212	0.77184
Random Forest	n_estimators=16	0.79330	0.78125