```
Last login: Sun May 11 15:05:21 on ttys016
(base) sathwik@SATHWIKs-MacBook-Air Flower_Main % conda activate flec_env
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client1.py", line 6, in <module>
    from sklearn.linear_model import LogisticRegression
ModuleNotFoundError: No module named 'sklearn'
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client1.py", line 13, in <module>
    (X_train, y_train), (X_test, y_test) = utils.load_data_client()
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/utils.py", line 84, in load_data_client
    x = StandardScaler().fit_transform(X)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/sklearn/utils/_set_output.py", line 319, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/sklearn/base.py", line 918, in fit_transform
    return self.fit(X, **fit_params).transform(X)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/sklearn/preprocessing/_data.py", line 894, in fit
    return self.partial_fit(X, y, sample_weight)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/sklearn/base.py", line 1389, in wrapper
    return fit_method(estimator, *args, **kwargs)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/sklearn/preprocessing/_data.py", line 930, in partial_fit
    X = validate_data(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/sklearn/utils/validation.py", line 2944, in validate_data
    out = check_array(X, input_name="X", **check_params)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/sklearn/utils/validation.py", line 1055, in check_array
    array = _asarray_with_order(array, order=order, dtype=dtype, xp=xp)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/sklearn/utils/_array_api.py", line 839, in _asarray_with_order
    array = numpy.asarray(array, order=order, dtype=dtype)
ValueError: could not convert string to float: 'MARVIK Soft Silicone Adjustable Band Strap Compatible for Oneplus Smart Band & Oppo Smart Band'
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

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            entirely in future versions of Flower.

Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client1.py", line 51, in <module>
    fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 438, in start_client_internal
    message = receive()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/grpc_client/connection.py", line 142, in receive
    proto = next(server_message_iterator)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 543, in __next__
    return self._next()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 969, in _next
    raise self
grpc._channel._MultiThreadedRendezvous: <_MultiThreadedRendezvous of RPC that terminated with:
        status = StatusCode.UNAVAILABLE
        details = "failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: Failed to connect to remote host: connect: Connection refused
 (61)"
        debug_error_string = "UNKNOWN:Error received from peer  {grpc_message:"failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: F
ailed to connect to remote host: connect: Connection refused (61)", grpc_status:14, created_time:"2025-05-11T15:33:36.268332-04:00"}"
>
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

            This is a deprecated feature. It will be removed
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WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

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            entirely in future versions of Flower.
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```
Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client1.py", line 51, in <module>
    fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 438, in start_client_internal
    message = receive()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/grpc_client/connection.py", line 142, in receive
    proto = next(server_message_iterator)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 543, in __next__
    return self._next()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 969, in _next
    raise self
grpc._channel._MultiThreadedRendezvous: <_MultiThreadedRendezvous of RPC that terminated with:
        status = StatusCode.UNAVAILABLE
        details = "failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: Failed to connect to remote host: connect: Connection refused (61)"
        debug_error_string = "UNKNOWN:Error received from peer  {grpc_message:"failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: Failed to connect to remote host: connect: Connection refused (61)", grpc_status:14, created_time:"2025-05-11T15:36:11.945559-04:00"}"
>
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

INFO :
INFO :      Received: get_parameters message cbd93da5-06c9-4dd0-9ad7-99d3e2fcd7e7
ERROR :     Client raised an exception.
Traceback (most recent call last):
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 571, in start_client_internal
    reply_message = client_app(message=message, context=context)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/client_app.py", line 144, in __call__
    return self._call(message, context)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/client_app.py", line 128, in ffn
    out_message = handle_legacy_message_from_msgtype(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/message_handler/message_handler.py", line 119, in handle_legacy_message_from_msgtype
    get_parameters_res = maybe_call_get_parameters(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/client.py", line 204, in maybe_call_get_parameters
    return client.get_parameters(get_parameters_ins)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/numpy_client.py", line 214, in _get_parameters
    parameters = self.numpy_client.get_parameters(config=ins.config)  # type: ignore
TypeError: get_parameters() got an unexpected keyword argument 'config'
Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client1.py", line 51, in <module>
    fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 578, in start_client_internal
    raise ex
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 571, in start_client_internal
    reply_message = client_app(message=message, context=context)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/client_app.py", line 144, in __call__
    return self._call(message, context)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/client_app.py", line 128, in ffn
    out_message = handle_legacy_message_from_msgtype(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/message_handler/message_handler.py", line 119, in handle_legacy_message_from_msgtype
    get_parameters_res = maybe_call_get_parameters(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/client.py", line 204, in maybe_call_get_parameters
    return client.get_parameters(get_parameters_ins)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/numpy_client.py", line 214, in _get_parameters
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TypeError: get_parameters() got an unexpected keyword argument 'config'
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:
```

```
        $ flower-supernode --insecure --superlink='<IP>:<PORT>'

    To view all available options, run:

        $ flower-supernode --help

    Using `start_client()` is deprecated.

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        entirely in future versions of Flower.

Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client1.py", line 51, in <module>
    fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 438, in start_client_internal
    message = receive()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/grpc_client/connection.py", line 142, in receive
    proto = next(server_message_iterator)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 543, in __next__
    return self._next()
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ailed to connect to remote host: connect: Connection refused (61)", grpc_status:14, created_time:"2025-05-11T15:42:25.333308-04:00"}"
>
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
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WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

        $ flower-supernode --insecure --superlink='<IP>:<PORT>'

    To view all available options, run:

        $ flower-supernode --help

    Using `start_client()` is deprecated.

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        entirely in future versions of Flower.

INFO :
INFO :      Received: train message e343f5f0-4077-40d3-9190-8dbfe893d5f4
Training finished for round 1
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message 99a3164e-8206-46a0-97a4-0817a26e855e
INFO :      Sent reply
INFO :
INFO :      Received: train message 41c18b1e-e67d-4860-bc36-f322577e77dd
Training finished for round 2
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message ee10559b-46c4-4acf-a8cb-abc7fa9dfe1c
INFO :      Sent reply
INFO :
INFO :      Received: train message 426a372a-deb8-43d8-9601-aed255ad73e4
Training finished for round 3
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message 71e36574-b04b-41a4-9a59-a39b2bdb5023
INFO :      Sent reply
INFO :
INFO :      Received: train message 231e825e-c7f1-47a1-9080-afdc26bf7ff4
Training finished for round 4
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message 586e419c-7ffe-4758-ba05-5f566652ee3c
INFO :      Sent reply
INFO :
INFO :      Received: train message c168cacd-3e42-4000-883f-a6cc9313dc20
Training finished for round 5
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message 127b750b-479b-49ea-b164-4bff4255369e
INFO :      Sent reply
INFO :
INFO :      Received: train message d1feece2-bff9-4fc7-b1b6-8d6d60d990ee
Training finished for round 6
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message 3429cee9-7417-498f-9626-46cfa5a9e82b
INFO :      Sent reply
INFO :
INFO :      Received: train message c8c09538-8184-412a-bca4-b4de1775a2f9
Training finished for round 7
```

```
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message 1d908a2f-3d04-4d3e-88f3-0c97fb1fa521
INFO :      Sent reply
INFO :
INFO :      Received: train message c3e66cbe-5d94-4066-ad28-ce0f9606b60b
Training finished for round 8
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message 1503f9fb-598d-4515-bcad-b3df00f4e068
INFO :      Sent reply
INFO :
INFO :      Received: train message ee37e82a-abce-4d66-bf01-48d9eb4de88c
Training finished for round 9
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message d41e6561-1b22-4e4e-bcdd-3dfdb743bbe5
INFO :      Sent reply
INFO :
INFO :      Received: train message 478d806a-b379-4f85-af2c-c42474491d9c
Training finished for round 10
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message f2ca00c1-3372-408b-a75f-d2f4a5dcb4af
INFO :      Sent reply
INFO :
INFO :      Received: reconnect message 4678676a-2c8c-4c33-8161-c0389ff66653
INFO :      Disconnect and shut down
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
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        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

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Traceback (most recent call last):
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(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
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Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client1.py", line 51, in <module>
```

```
        fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 438, in start_client_internal
    message = receive()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/grpc_client/connection.py", line 142, in receive
    proto = next(server_message_iterator)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 543, in __next__
    return self._next()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 969, in _next
    raise self
grpc._channel._MultiThreadedRendezvous: <_MultiThreadedRendezvous of RPC that terminated with:
        status = StatusCode.UNAVAILABLE
        details = "failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: Failed to connect to remote host: connect: Connection refused
 (61)"
        debug_error_string = "UNKNOWN:Error received from peer  {grpc_message:"failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: F
ailed to connect to remote host: connect: Connection refused (61)", grpc_status:14, created_time:"2025-05-11T17:13:24.151483-04:00"}"
>
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

INFO :
INFO :      Received: train message d1253444-e81a-4b23-96a0-68cd4d6a2a6a
Training finished for round 1
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message 80b45477-373b-47d0-8e86-469f7696d0ea
INFO :      Sent reply
INFO :
INFO :      Received: train message 6c71f47c-9c49-4f56-a080-4bc536dba9e4
Training finished for round 2
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message fe2af104-3126-4a80-bff1-391f5a48d53d
INFO :      Sent reply
INFO :
INFO :      Received: train message 0fffd94d-36ed-4465-948c-61ef7f0a6030
Training finished for round 3
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message e63487bd-68e0-46b5-b582-fba701a37ebc
INFO :      Sent reply
INFO :
INFO :      Received: train message 31b293e0-effd-4502-b33b-5d16ecba06bd
Training finished for round 4
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message a4367d7c-4c1b-4ee7-bee0-cd77be31e4f1
INFO :      Sent reply
INFO :
INFO :      Received: train message a158183d-3348-4682-ab43-a43ac7a09e36
Training finished for round 5
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message 681e3676-6e9a-48cc-928f-0d5968ac6e5c
INFO :      Sent reply
INFO :
INFO :      Received: train message 29576a87-d1bf-4300-a4e3-23a3b60deee3
Training finished for round 6
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message de861f95-6485-4c57-9dfe-7763c3aeb8a9
INFO :      Sent reply
INFO :
INFO :      Received: train message 6c54a4ca-7e06-4ff4-97eb-f94953dc7ed2
Training finished for round 7
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message d5ad630a-1b2a-463b-aab1-2967bcb14f59
INFO :      Sent reply
INFO :
INFO :      Received: train message db201312-690b-487d-b088-df582e5a823c
Training finished for round 8
INFO :      Sent reply
INFO :
INFO :      Received: evaluate message 27d81e0b-b9bd-49ac-aa02-4476337fcf5e
INFO :      Sent reply
INFO :
INFO :      Received: train message 844b90da-1870-4279-ab47-73e33b163e0c
```

```
Training finished for round 9
INFO :       Sent reply
INFO :
INFO :       Received: evaluate message bd0b1add-899a-42a3-a7a9-5d1a7f70f3eb
INFO :       Sent reply
INFO :
INFO :       Received: train message df60db13-2171-4648-9939-16fa78992f7c
Training finished for round 10
INFO :       Sent reply
INFO :
INFO :       Received: evaluate message 4bd5cbc5-7811-4e81-b391-e95d5ba8e7c9
INFO :       Sent reply
INFO :
INFO :       Received: reconnect message 2450bc5f-fe5a-47b5-b629-1644ce3847d5
INFO :       Disconnect and shut down
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client1.py", line 51, in <module>
    fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 438, in start_client_internal
    message = receive()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/grpc_client/connection.py", line 142, in receive
    proto = next(server_message_iterator)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 543, in __next__
    return self._next()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 969, in _next
    raise self
grpc._channel._MultiThreadedRendezvous: <_MultiThreadedRendezvous of RPC that terminated with:
        status = StatusCode.UNAVAILABLE
        details = "failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: Failed to connect to remote host: connect: Connection refused
 (61)"
        debug_error_string = "UNKNOWN:Error received from peer  {grpc_message:"failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: F
ailed to connect to remote host: connect: Connection refused (61)", grpc_status:14, created_time:"2025-05-11T17:23:11.678441-04:00"}"
>
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client1.py", line 51, in <module>
    fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 438, in start_client_internal
    message = receive()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/grpc_client/connection.py", line 142, in receive
    proto = next(server_message_iterator)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 543, in __next__
    return self._next()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 969, in _next
    raise self
```

```
grpc._channel._MultiThreadedRendezvous: <_MultiThreadedRendezvous of RPC that terminated with:
        status = StatusCode.UNAVAILABLE
        details = "failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: Failed to connect to remote host: connect: Connection refused
  (61)"
        debug_error_string = "UNKNOWN:Error received from peer  {created_time:"2025-05-11T17:25:28.109697-04:00", grpc_status:14, grpc_message:"failed to conn
ect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: Failed to connect to remote host: connect: Connection refused (61)"}"
>
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %  python client1.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

INFO :
INFO :      Received: train message cf746aa2-99d9-46d1-9a46-366a913486b1
Training finished for round 1
INFO :      Sent reply
INFO :
INFO :      Received: train message 61727f9d-1e62-4296-98fa-8690223157af
Training finished for round 2
INFO :      Sent reply
INFO :
INFO :      Received: train message 5a464a51-bdfc-49a7-9c3d-18ddf09b9d2a
Training finished for round 3
INFO :      Sent reply
INFO :
INFO :      Received: train message 1af7e84c-019f-48e1-a706-c5d3ed9c100f
Training finished for round 4
INFO :      Sent reply
INFO :
INFO :      Received: train message 53a6ccd0-069d-46db-be1c-8680dd0fe550
Training finished for round 5
INFO :      Sent reply
INFO :
INFO :      Received: train message e4372df0-c213-4867-b837-b645732a5d52
Training finished for round 6
INFO :      Sent reply
INFO :
INFO :      Received: train message 8444840d-8b1d-4efb-b904-0696ab8a0601
Training finished for round 7
INFO :      Sent reply
INFO :
INFO :      Received: train message fc9a5780-7fbf-4e58-a747-0b945fb5f53a
Training finished for round 8
INFO :      Sent reply
INFO :
INFO :      Received: train message a98ae6da-590f-4bd8-9ef8-8622975ee4bb
Training finished for round 9
INFO :      Sent reply
INFO :
INFO :      Received: train message 5259162c-1d41-4d3f-bf4a-37ae6a63ca9e
Training finished for round 10
INFO :      Sent reply
INFO :
INFO :      Received: reconnect message 4f4987d6-8569-44b7-84f1-5df469b14e8b
INFO :      Disconnect and shut down
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %
```