

# Oracle Machine Learning for Python Known Issues

Learn about the issues you may encounter when using Oracle Machine Learning for Python and how to work around them.

## Topics:

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## Online Help for oml.Datetime.replace Incorrectly States that oml.integer is Supported for Arguments

Running the help file for `oml.Datetime.replace` states that the `oml.integer` is supported for the year, month, day, hour minute, second, and microsecond arguments but it is not yet supported.

```
%python
help(oml.Datetime.replace)
```

## oml.Integer Math Methods Fail with Numeric Values

Running the `oml.integer` math method fails with the numeric values.

```
%python
import oml
DF = oml.push(pd.DataFrame(range(5), columns=['X']))
```

```
X_min = DF['X'].min()
DF['X'] - X_min
```

The output returns `TypeError: 'other' must be an oml.Integer, int, oml.Float, or float object`.

The workaround is to cast `DF['X']` to an `oml.Float` data type.

```
%python
oml.Float(DF['X']) - X_min
```

The output returns `[0, 1, 2, 3, 4]`.

## Running `oml.dir()` from OML4Py in Notebook Paragraph in Oracle Machine Learning Notebooks Returns Empty List

Running the `oml.dir()` function in a notebook should return the `oml.*` objects in the current workspace. However, at present, running `oml.dir` returns an empty list:

```
%python
import oml
...
oml.dir()
[]
```

### Workaround

To work around this problem, use `dir()` and check if the objects belong to the `oml` module. For example, use `dir()` to return the objects.

```
%python
dir()
['__builtins__', '__zeppelin__', 'datasets', 'linear_model', 'oml',
 'inv_objects', 'inv_wine', 'inv_wine_columns', 'pd', 'wine', 'x',
 'y', 'z']
```

Then use `<obj>.__class__.__module__` to return the module name for an object `<obj>`; for example:

```
%python
inv_wine.__class__.__module__
'oml.core.frame'
```

If the returned string starts with `oml.`, the object belongs to the `oml` module.

If you have many objects to check, you can iterate through the objects; for example:

```
%python
[t for t in dir() if eval(t).__class__.__module__[0:4] == 'oml.']
['inv_wine']
```

See `oml.dir()` and `dir()` in [Oracle Machine Learning for Python API Reference](#) and see [Get Started with Notebooks for Data Analysis and Data Visualization in Using Oracle Machine Learning on Autonomous Database](#).

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