

# **AlronSuit Documentation**

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```
class      aironsuit.suit.AIronSuit      (      model_constructor,      trainer=None,  
model_constructor_wrapper=None )
```

**AIronSuit** is a model wrapper that takes care of the hyper-parameter optimization problem, training and inference among other things.

**Parameters**

- **model\_constructor** (function:*airontools.net\_constructors.net\_constructor*) – A model constructor function.
- **trainer** (class:*aironsuit.trainers.AIronTrainer*) – A class that trains the model constructed by **model\_constructor**.
- **model\_constructor\_wrapper** (function, *optional*) – A function that wraps the output model of the **model\_constructor**.

```
clear_session ( )
```

```
compile ( loss, optimizer, metrics=None )
```

**Parameters**

- **loss** –
- **optimizer** –
- **metrics** –

```
create ( specs, n_parallel_models=1, devices=None, cuda=None )
```

**Parameters**

- **specs** –
- **n\_parallel\_models** –
- **devices** –
- **cuda** –

```
explore ( x_train, y_train, x_val, y_val, space, model_specs, train_specs, path, max_evals, epochs,  
metric=None, trials=None, net_name='NN', verbose=0, seed=None, val_inference_in_path=None,  
callbacks=None, cuda=None )
```

**Parameters**

- **x\_train** –
- **y\_train** –
- **x\_val** –
- **y\_val** –
- **space** –
- **model\_specs** –
- **train\_specs** –

- `path` –
- `max_evals` –
- `epochs` –
- `metric` –
- `trials` –
- `net_name` –
- `verbose` –
- `seed` –
- `val_inference_in_path` –
- `callbacks` –
- `cuda` –

#### Returns

**`inference`** (*x*, *use\_trainer=False*)

Parameters **x** –

Returns

**`load_model`** (*name*)

Parameters **name** –

**`save_model`** (*name*)

Parameters **name** –

**a**

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