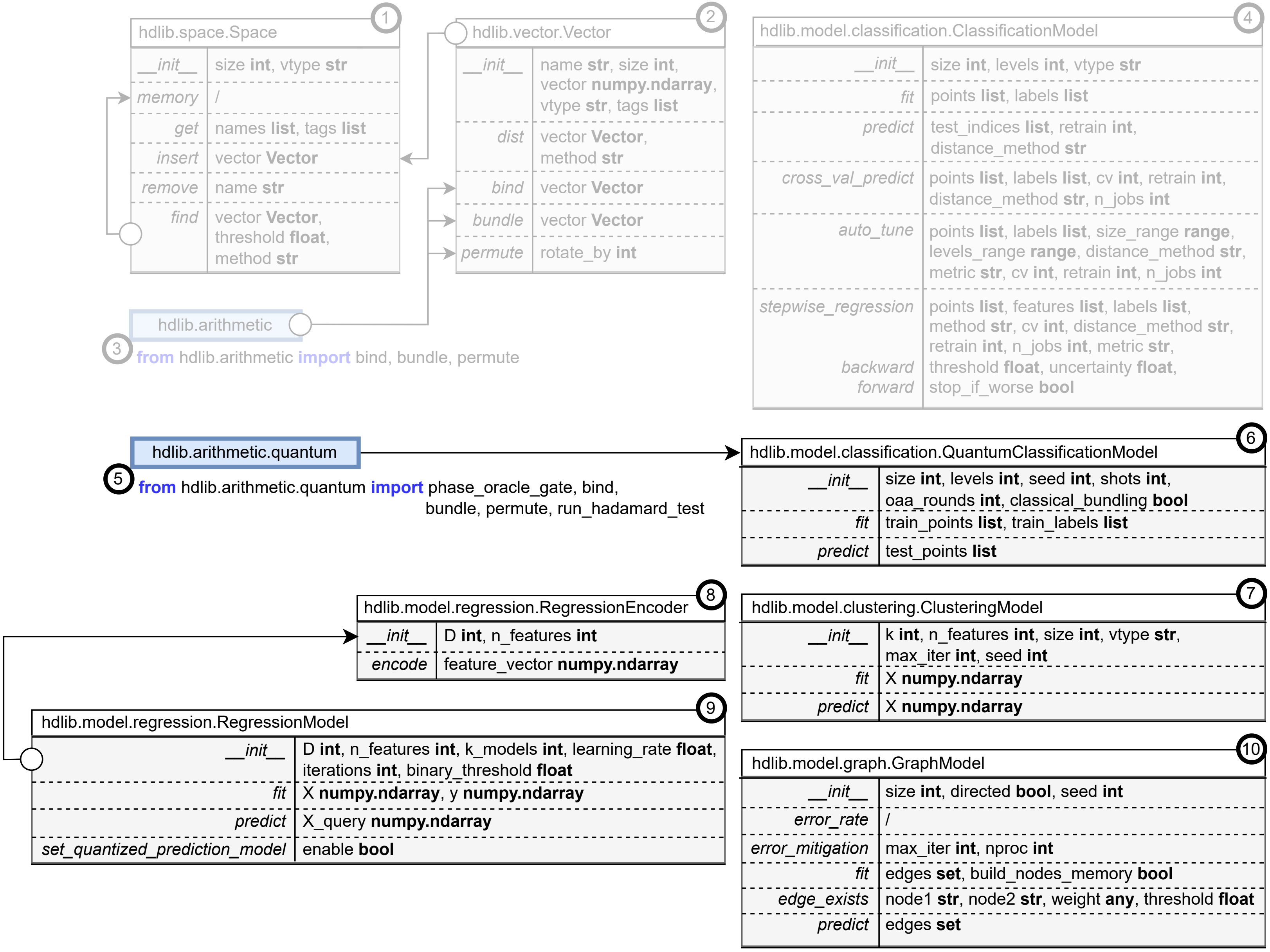

hdlib.space.Space	
__init__	size **int**, vtype **str**
memory	/
get	names **list**, tags **list**
insert	vector **Vector**
remove	name **str**
find	vector **Vector**, threshold **float**, method **str**

hdlib.vector.Vector	
__init__	name **str**, size **int**, vector **numpy.ndarray**, vtype **str**, tags **list**
dist	vector **Vector**, method **str**
bind	vector **Vector**
bundle	vector **Vector**
permute	rotate_by **int**

hdlib.arithmetic

```
from hdlib.arithmetic import bind, bundle, permute
```

hdlib.model.classification.ClassificationModel	
__init__	size **int**, levels **int**, vtype **str**
fit	points **list**, labels **list**
predict	test_indices **list**, retrain **int**, distance_method **str**
cross_val_predict	points **list**, labels **list**, cv **int**, retrain **int**, distance_method **str**, n_jobs **int**
auto_tune	points **list**, labels **list**, size_range **range**, levels_range **range**, distance_method **str**, metric **str**, cv **int**, retrain **int**, n_jobs **int**
stepwise_regression *backward* *forward*	points **list**, features **list**, labels **list**, method **str**, cv **int**, distance_method **str**, retrain **int**, n_jobs **int**, metric **str**, threshold **float**, uncertainty **float**, stop_if_worse **bool**

hdlib.arithmetic.quantum

```
from hdlib.arithmetic.quantum import phase_oracle_gate, bind,
                                    bundle, permute, run_hadamard_test
```

hdlib.model.classification.QuantumClassificationModel	
__init__	size **int**, levels **int**, seed **int**, shots **int**, oaa_rounds **int**, classical_bundling **bool**
fit	train_points **list**, train_labels **list**
predict	test_points **list**

hdlib.model.regression.RegressionEncoder	
__init__	D **int**, n_features **int**
encode	feature_vector **numpy.ndarray**

hdlib.model.clustering.ClusteringModel	
__init__	k **int**, n_features **int**, size **int**, vtype **str**, max_iter **int**, seed **int**
fit	X **numpy.ndarray**
predict	X **numpy.ndarray**

hdlib.model.regression.RegressionModel	
__init__	D **int**, n_features **int**, k_models **int**, learning_rate **float**, iterations **int**, binary_threshold **float**
fit	X **numpy.ndarray**, y **numpy.ndarray**
predict	X_query **numpy.ndarray**
set_quantized_prediction_model	enable **bool**

hdlib.model.graph.GraphModel	
__init__	size **int**, directed **bool**, seed **int**
error_rate	/
error_mitigation	max_iter **int**, nproc **int**
fit	edges **set**, build_nodes_memory **bool**
edge_exists	node1 **str**, node2 **str**, weight **any**, threshold **float**
predict	edges **set**