Appendix A

A.1 List of the Useful SPARQL Queries Overcoming the Required Objectives and Covering the Necessary Criteria

Query 3: Describe the testing data set of a given ML model

Query 4: Retrieve the performance of a given ML model (the scores and the metrics used to calculate the evaluation applied to the testing data)

Query 5: Retrieve the metadata of a given ML model with those related to its algorithm / its training data set / its testing data set and to the evaluations applied to the testing data)

```
SELECT ?mlmdfeaturename ?mlmdvalueval ?algo ?algomdfeaturename
?algomdvalueval ?trds ?trdsmdfeaturename
?trdsmdvalueval ?tsds ?tsdsmdfeaturename ?tsdsmdvalueval
?eval ?evalmdfeaturename ?evalmdvalueval
WHFRF
        ?ml rdf:type mlm:MachineLearningModel .
        ?ml mlm:mlmID "1"^^xsd:string
            ?ml mlm:hasAlgorithm ?algo .
            ?algo mlm:hasAlgorithmMetaData ?algo_md .
            ?algo_md mlm:hasFeature ?algomdfeature .
            \verb|?algomdfeature mlm:featureName ?algomdfeaturename .
            ?algo_md mlm:hasValue ?algomdvalue .
            ?algomdvalue mlm:valueVal ?algomdvalueval
        }
        UNION
        {
            ?ml mlm:hasTrainingDataSet ?trds .
            ?trds mlm:DSHasMetaData ?trds_md .
            ?trds_md mlm:hasFeature ?trdsmdfeature .
            ?trdsmdfeature mlm:featureName ?trdsmdfeaturename .
            ?trds md mlm:hasValue ?trdsmdvalue .
            ?trdsmdvalue mlm:valueVal ?trdsmdvalueval
        }
        UNION
            ?ml mlm:hasTestingDataSet ?tsds .
            ?tsds mlm:DSHasMetaData ?tsds_md .
            ?tsds_md mlm:hasFeature ?tsdsmdfeature .
            ?tsdsmdfeature mlm:featureName ?tsdsmdfeaturename .
            ?tsds_md mlm:hasValue ?tsdsmdvalue .
            ?tsdsmdvalue mlm:valueVal ?tsdsmdvalueval .
            ?tsds mlm:hasEvaluation ?eval .
            ?eval mlm:hasEvaluationMetaData ?eval_md .
            ?eval_md mlm:hasFeature ?evalmdfeature .
            ?evalmdfeature mlm:featureName ?evalmdfeaturename .
            ?eval_md mlm:hasValue ?evalmdvalue .
            ?evalmdvalue mlm:valueVal ?evalmdvalueval
        }
        UNION
            ?ml mlm:hasMetaData ?ml_md .
            ?ml_md mlm:hasFeature ?mlmdfeature .
            ?mlmdfeature mlm:featureName ?mlmdfeaturename .
            ?ml_md mlm:hasValue ?mlmdvalue .
            ?mlmdvalue mlm:valueVal ?mlmdvalueval
        }
    }
```

Query 6: Find the application domain of each ML model and give a clear description of this domain

Query 7: Describe the training data context of a given ML model