

Data

-data: ArrayList<Example>
-target: ArrayList<Double>
-numberOfExamples: int

-explanatorySet: ArrayList<Attribute>-classAttribute: ContinuousAttribute

<<costruttore>>

+Data(fileName: String)

+Data(db: DbAccess, table: String)

<<accesso>>

+toString(): String

~getNumberofExplanatoryAttributes(): int

-partition(key: ArrayList<Double>, inf: int, sup: int): int -quicksort(key: ArrayList<Double>, inf: int, sup: int)

+avgClosest(e: Example, k: int): double

+readExample(): Example

-scaledExample(e: Example): Example

DiscreteAttribute

<<costruttore>>

+DiscreteAttribute(nm: String, idx: int)

ContinuousAttribute

-min: Double -max: Double

-Extends-

+toString(): String

Extends-

<<costruttore>>

+ContinuousAttribute(nm: String, idx: int)

<<accesso>>

~setMin(v: Double)
~setMax(v: Double)

~scale(value: Double): Double

+toString(): String

database

Column

-name: String-type: String

<<costruttore>>

~Column(name: String, type: String)

<<accesso>>

+getColumnName(): String

DbAccess

+isNumber(): boolean +toString(): String

DatabaseConnectionException

<<costruttore>>

~DatabaseConnectionException(msg: String)

InsufficientColumnNumberException

<<costruttore>>

+InsufficientColumnNumberException(msg: String)

TableData

-DBMS: String -SERVER: String

-PORT: int

-DATABASE: String -USER_ID: String -PASSWORD: String -conn: Connection

<<costruttore>>

+DbAccess()

<<accesso>>

+getConnection(): Connection

+closeConnection()

-db: DbAccess -table: String

-tSchema: TableSchema -transSet: List<Example>

-target: List

<<costruttore>>

+TableData(db: DbAccess, tSchema: TableSchema)

<<accesso>>

-init()

+getExamples(): List<Example>

+getTargetValues(): List

+getAggregateColumnValue(column: Column, aggregate: QUERY_TYPE): Double

NoValueException

<<costruttore>>

+NoValueException(msg: String)

QUERY TYPE

+QUERY_TYPE: enum

TableSchema

-tableSchema: List<Column>

-target: Column -tableName: String

<<costruttore>>

+TableSchema(tableName: String, db: DbAccess)

<<accesso>>

+target(): Column

~getNumberofAttributes(): int

~getTableName(): String

+iterator(): Iterator<Column>

-tableExists(db: DbAccess, tableName: String): boolean

example

Example

-example: ArrayList<Object>

<<costruttore>>

+Example(size: int)

<<accesso>>

+set(o: Object, index: int)

+get(index: int): Object

+toString(): String

+swap(e: Example)

+distance(e: Example): double

ExampleSizeException

<<costruttore>>

- +ExampleSizeException()
- +ExampleSizeException(msg: String)

mining

KNN

~data: Data

<<costruttore>>

+KNN(trainingSet: Data)

<accesso>> +predict(e: Example, k: int): Double

+predict(): Double

+salva(fileName: String)

+carica(fileName: String): KNN

utility

Keyboard

- -printErrors: boolean
- -errorCount: int
- -current_token: String
- -reader: StringTokenizer
- -in: BufferedReader
- <<accesso>>
- +getErrorCount(): int
- +resetErrorCount(count: int)
- +getPrintErrors(): boolean
- +setPrintErrors(flag: boolean)
- -error(str: String)
- -getNextToken(): String
- -getNextToken(skip: boolean): String
- -getNextInputToken(skip: boolean): String
- +endOfLine(): boolean
- +readString(): String
- +readWord(): String
- +readBoolean(): boolean
- +readChar(): char
- +readInt(): int
- +readLong(): long
- +readFloat(): float
- +readDouble(): double