

conditionAttributeName: String conditionValue: Object - attributeType: Type - isLeaf: bool - trueNode: Node falseNode: Node answer: String << enum >> giniIndex: int LogicalOpertator - partition: DataView 0..1 EQUALS observationClassCount: HashTable LARGER_THAN + ConditionAttributeName(): String SMALLER_THAN conditionOperator + ConditionOperator(): LogicalOperator LARGER_EQUALS_THAN + ConditionValue(): Object SMALLER_EQUALS_THAN + AttributeType(): Type + TrueNode(): Node +FalseNode(): Node + Answer(): String + IsLeaf(): bool + GiniIndex(): int + Node(conditionAttributeName : string , conditionOperator : LogicalOperator, conditionValue : object, attributeType : Type, isLeaf : bool) + EvaluateCondition<T>(value : T) : Node DecisionTree + OverallGiniIndex: double + PriceRangesCountGlobal: HashTable + Data: DataTable + DataFiltered: DataView - ginilmpurityTrue: double - ginilmpurityFalse: double + DecisionTree(DataSetManager dataSetManager) + GiniIndexes(): HashTable + Data(): DataTable 0..1 + DataFiltered(): DataView + DecisionTree(DataTable data) + Root (): Node + CalculateOverallGiniIndex(): void + generateTree(): Node generateTreeRecursive(Node currentNode): void SelectBestColumn(DataView nodePartition): KeyValuePair<double,Pair> - CalculateGiniIndexForAllColumns(DataView nodePartition): SortedDictionary<double, Pair> - CalculateProportionSquared(int count, int totalRows): double - AddPriceRangeRecordToHashTable<T>(Hashtable priceRangesCount, T range): KeyValuePair<double, T> + ColumnOverallGiniImpurity<T>(string columnName, DataView nodePartition): KeyValuePair<double, T> + ObtainPossibleConditions<T>(DataView nodePartition, int totalRows, string columnName): HashTable + CountPriceRangesForPossibleCondition<T>(Hashtable outerHashtable, DataView nodePartition, String columnName, int totalRows): HashTable + CalculatePossibleOverallGinilmpurities<T>(Hashtable outerHashtable, int totalRows): SortedDictionary<double, T>

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**NumberCondition: int
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**NumberSqtbAbove: double
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**NumberSqtbAbove: double
**NumberSqtbCode: int
**NumberSqtbCode: int
**NumberSqtbCode: int
**NumberSqtbLinds: double
**PriceRange: String
**Record(int numberBedrooms, double numberSqtbLiving, double numberSqtbLiving, double numberSqtbLiving, double numberSqtbLiving, double numberSqtb.
**Record(int numberBedrooms, double numberSqtbabove, double numberSq

Record
+ Element1: Object
+ Element2: Object
+ Pair(object element1, object element2)

+ NumberBedrooms: int

+ NumberBathrooms: double