

			Node	
			- conditionAttributeName: String	
			- conditionValue: Object - attribute Type: Type	
		<< enum >> LogicalOpertator	- isLeaf: bool - trueNode: Node	
	EQUA	LS - conditionOperator	- falseNode: Node - answer: String	
	SMAL	ER_THAN  LER_THAN  1	- ginilndex: int	
		ER_EQUALS_THAN LER_EQUALS_THAN	- partition: DataView - observationClassCount: HashTable	
			+ ConditionAttributeName(): String	
			+ ConditionOperator(): LogicalOperator + ConditionValue(): Object	
			+ AttributeType(): Type + TrueNode(): Node	
1	- decisionTree		+FalseNode(): Node + Answer(): String	
			+ IsLeaf(): bool	
			+ GiniIndex(): int + Node(conditionAttributeName : string , conditionOperator : LogicalOperator, conditionValue : object, attributeType : Type, isLea	af : bool)
			+ EvaluateCondition <t>(value : T) : Node</t>	
		DecisionTree  LAcquirect double		
		+ Accuracy: double + HeightLimit: int		
		+ OverallGiniIndex: double + PriceRangesCountGlobal: HashTable	- root	
		+ DataTraining: DataTable + DataTest: DataTable		
		+ DataFiltered: DataView	1	
		+ DataOriginal: DataTable + DecisionTree(DataTable data)		
		+ CalculateOverallGiniIndex(): void + Test(): double		
		+ Predict(DataRow newDataPoint): String + generateTree(int heightLimit, double trainingP, double testP): Node		
		+ Reset(): void		
		- generateTreeRecursive(Node currentNode, int currentHeight): void + generateTree(): Node		
		+ SelectBestColumn(DataTable nodePartition): KeyValuePair <double, double="" double,="" hashtable,="" object,="" tuple<string,="">&gt; - CalculateGiniIndexForAllColumns(DataTable nodePartition): SortedDictionary<double, double="" double,="" hashtable,="" object,="" tuple<string,="">&gt;</double,></double,>		- record
		- CalculateProportionSquared(int count, int totalRows): double		1
		- AddPriceRangeRecordToHashTable <t>(Hashtable priceRangesCount, T range): void + ColumnOverallGinilmpurity<t>(string columnName, DataTable nodePartition): KeyValuePair<double, double="" hashtable,="" tuple<t,="">&gt;</double,></t></t>		
		+ ObtainPossibleConditions <t>(DataTable nodePartition, int totalRows, string columnName): HashTable + CountPriceRangesForPossibleCondition<t>(Hashtable outerHashtable, DataView nodePartition, String columnName, int totalRows): HashTable</t></t>		
		+ CalculatePossibleOverallGinilmpurities <t>(Hashtable outerHashtable, int totalRows): SortedDictionary<double, t=""></double,></t>		
		Record		
	+ NumberBedrooms: int + NumberBathrooms: double	Record		
	+ NumberBathrooms: double + NumberSqftLiving: double	Record		
	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double	Record		
- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int	Record		
- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int	Record		
- dsTree >	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double	Record		
- dsTree >	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int	Record		
- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberZipCode: int	Record		
- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double	Record		
- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String			
- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String	Record  ImberBathrooms, double numberSqftLiving, double numberSqftLot, double numberFloor, bool validationWaterfront, int numberView, int numberCondition, int numberG	Grade, double numberSqftAbove, double numberSqftBasement, int numberYearRenovated, int numberZipCode, double numberSqftLiving15	s, double numberSqftLot15)
- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String		Grade, double numberSqftAbove, double numberSqftBasement, int numberYearRenovated, int numberZipCode, double numberSqftLiving15	i, double numberSqftLot15)
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- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String		Grade, double numberSqftAbove, double numberSqftBasement, int numberYearRenovated, int numberZipCode, double numberSqftLiving15	s, double numberSqftLot15)
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- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String		Grade, double numberSqftAbove, double numberSqftBasement, int numberYearRenovated, int numberZipCode, double numberSqftLiving15	i, double numberSqftLot15)
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- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String		Grade, double numberSqftAbove, double numberSqftBasement, int numberYearRenovated, int numberZipCode, double numberSqftLiving15	i, double numberSqftLot15)
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- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String		Grade, double numberSqftAbove, double numberSqftBasement. int numberYearRenovated, int numberZipCode, double numberSqftLiving15	i, double numberSqftLot15)
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- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String		Grade, double numberSqftAbove, double numberSqftBasement, int numberYearRenovated, int numberZipCode, double numberSqftLiving.15	i, double numberSqftLot15)
- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String		Grade, double numberSqftAbove, double numberSqftBasement, int numberYearRenovated, int numberZipCode, double numberSqftLving.15	s, double numberSqftLot15)
- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String	umberitathrooms, double numberSqft. Iving, double numberSqft.lot. double numberFloor, bool validationWaterfront, int numberView, int numberCondition, int numberC	Grade, double numberSqftAbove, double numberSqftBasement, int numberYearRenovaled, int numberZipCode, double numberSqftLiving1S	s, double numberSqftLot15)
- dsTree	+ NumberBathrooms: double + NumberSqftLiving: double + NumberSqftLot: double + NumberFloor: double + ValidationWaterfront: bool + NumberView: int + NumberCondition: int + NumberGrade: int + NumberSqftAbove: double + NumberSqftBasement: double + NumberYearRenovated: int + NumberYearBuilt: int + NumberSqftLiving15: double + NumberSqftLiving15: double + NumberSqftLot15: double + PriceRange: String	umberitathrooms, double numberSqft. Iving, double numberSqft.lot. double numberFloor, bool validationWaterfront, int numberView, int numberCondition, int numberC	Grade, double numberSqttAbove, double numberSqttBasement, int numberYearRenovaled, int numberZpCode, double numberSqttLiving.15	i, double numberSqftLot15)

+ Pair(object element1, object element2)