

Class key

-**Attributes** (all private, marked with -).

-**Methods** (all public, marked with +).

Driver Class

+ main(args: String[]): void

+ loadData(fileName: String): List<InsuranceRecord>

+ displayMenu(): void

+ processUserChoice(choice: int, records: List<InsuranceRecord>): void

+ printSummaryStatistics(records: List<InsuranceRecord>): void

+ showHistograms(records: List<InsuranceRecord>): void

+ runHypothesisTests(records: List<InsuranceRecord>): void

+ performRegression(records: List<InsuranceRecord>): void

Insurance Record Class

-age: int

-sex: string

- bmi: float

- children: int

- smoker: string

- region: string

- charges: float

+ getAge(): int

+ setAge(age: int): void

+ getSex(): string

+ setSex(sex: string): void

+ getBmi(): float

+ setBmi(bmi: float): void

+ getChildren(): int

+ setChildren(children: int): void

+ isSmoker(): bool

+ setSmoker(smoker: string): void

+ getRegion(): string

+ setRegion(region: string): void

+ getCharges(): float

+ setCharges(charges: float): void

+ toString(): string

Stats Calc Class

+count(records: List<InsuranceRecord>): int

+mean(records: List<InsuranceRecord>, attr: String): float

+stdDev(records: List<InsuranceRecord>, attr: String): float

+min(records: List<InsuranceRecord>, attr: String): float

+max(records: List<InsuranceRecord>, attr: String): float

+percentile(records: List<InsuranceRecord>, attr: String, p: float): float