| **Column Name** | **Description** |
| --- | --- |
| Id | Unique identifier for each property (not useful for modeling). |

**🏘️ Residential and Zoning Info**

| **Column Name** | **Description** |
| --- | --- |
| MSSubClass | Identifies the type of dwelling involved (e.g., 20 = 1-story, 60 = 2-story). |
| MSZoning | The general zoning classification (e.g., RL = Residential Low Density). |
| Street | Type of road access to the property (Pave or Grvl). |
| Alley | Type of alley access (Grvl, Pave, or NaN if no alley). |

**🌍 Lot & Land Features**

| **Column Name** | **Description** |
| --- | --- |
| LotFrontage | Linear feet of street connected to the property. |
| LotArea | Lot size in square feet. |
| LotShape | General shape of the property (Reg = Regular, IR1 = Slightly irregular, etc.). |
| LandContour | Flatness of the property (Lvl, Bnk, HLS, etc.). |
| Utilities | Type of utilities available (e.g., AllPub = All public utilities). |
| LotConfig | Lot configuration (e.g., Inside, Corner, CulDSac). |
| LandSlope | Slope of property (Gtl = Gentle, Mod = Moderate, Sev = Severe). |

**🏡 Neighborhood & Condition**

| **Column Name** | **Description** |
| --- | --- |
| Neighborhood | Physical locations within Ames city limits. |
| Condition1 | Proximity to main road or railroad (Normal, Feedr, PosN, etc.). |
| Condition2 | Secondary road or railroad proximity (if any). |

**🏠 Building & Style**

| **Column Name** | **Description** |
| --- | --- |
| BldgType | Type of dwelling (1Fam, 2fmCon, Duplex, etc.). |
| HouseStyle | Style of dwelling (1Story, 2Story, SLvl, etc.). |
| OverallQual | Overall material and finish quality (1-10). |
| OverallCond | Overall condition rating (1-10). |
| YearBuilt | Year the house was originally constructed. |
| YearRemodAdd | Year of the last remodeling or addition. |

**🏠 Roof & Exterior**

| **Column Name** | **Description** |
| --- | --- |
| RoofStyle | Type of roof (Gable, Hip, etc.). |
| RoofMatl | Roof material type. |
| Exterior1st | Exterior covering on house (VinylSd, MetalSd, etc.). |
| Exterior2nd | Second type (if any) of exterior covering. |

**🧱 Masonry & Quality**

| **Column Name** | **Description** |
| --- | --- |
| MasVnrType | Masonry veneer type (BrkFace, None, Stone, etc.). |
| MasVnrArea | Masonry veneer area in square feet. |
| ExterQual | Exterior material quality (Ex, Gd, TA, Fa, Po). |
| ExterCond | Present condition of the material on the exterior. |

**🏗️ Foundation & Basement**

| **Column Name** | **Description** |
| --- | --- |
| Foundation | Type of foundation (PConc, CBlock, etc.). |
| BsmtQual | Basement height quality. |
| BsmtCond | General basement condition. |
| BsmtExposure | Walkout or garden level basement walls. |
| BsmtFinType1 | Quality of basement finished area. |
| BsmtFinSF1 | Area of type 1 finished basement. |
| BsmtFinType2 | Quality of second finished basement area. |
| BsmtFinSF2 | Area of type 2 finished basement. |
| BsmtUnfSF | Unfinished basement area. |
| TotalBsmtSF | Total basement area. |

**🔥 Heating & Air Conditioning**

| **Column Name** | **Description** |
| --- | --- |
| Heating | Type of heating system. |
| HeatingQC | Heating quality and condition. |
| CentralAir | Central air conditioning (Y/N). |
| Electrical | Electrical system type. |

**🛋️ Interior Area**

| **Column Name** | **Description** |
| --- | --- |
| 1stFlrSF | First floor square feet. |
| 2ndFlrSF | Second floor square feet. |
| LowQualFinSF | Low quality finished area (all floors). |
| GrLivArea | Above ground living area square feet. |

**🛁 Bathrooms**

| **Column Name** | **Description** |
| --- | --- |
| BsmtFullBath | Basement full bathrooms. |
| BsmtHalfBath | Basement half bathrooms. |
| FullBath | Full bathrooms above grade. |
| HalfBath | Half bathrooms above grade. |

**🛏️ Rooms & Kitchens**

| **Column Name** | **Description** |
| --- | --- |
| BedroomAbvGr | Bedrooms above ground. |
| KitchenAbvGr | Kitchens above ground. |
| KitchenQual | Kitchen quality. |
| TotRmsAbvGrd | Total rooms above ground (excluding bathrooms). |

**🧯 Functionality & Fireplaces**

| **Column Name** | **Description** |
| --- | --- |
| Functional | Home functionality (Typ = Typical). |
| Fireplaces | Number of fireplaces. |
| FireplaceQu | Fireplace quality. |

**🚗 Garage**

| **Column Name** | **Description** |
| --- | --- |
| GarageType | Garage location. |
| GarageYrBlt | Year garage was built. |
| GarageFinish | Interior finish of garage. |
| GarageCars | Size of garage in car capacity. |
| GarageArea | Garage area in square feet. |
| GarageQual | Garage quality. |
| GarageCond | Garage condition. |

**🌳 Miscellaneous Features**

| **Column Name** | **Description** |
| --- | --- |
| PavedDrive | Paved driveway (Y/N/P = Partial). |
| WoodDeckSF | Wood deck area in square feet. |
| OpenPorchSF | Open porch area in square feet. |
| EnclosedPorch | Enclosed porch area. |
| 3SsnPorch | Three season porch area. |
| ScreenPorch | Screen porch area. |
| PoolArea | Pool area in square feet. |
| PoolQC | Pool quality. |
| Fence | Fence quality. |
| MiscFeature | Miscellaneous feature (e.g., Shed, TenC). |
| MiscVal | Value of miscellaneous feature. |

**📅 Sale Info**

| **Column Name** | **Description** |
| --- | --- |
| MoSold | Month the house was sold. |
| YrSold | Year the house was sold. |
| SaleType | Type of sale (e.g., WD = Warranty Deed, New = Newly built). |
| SaleCondition | Condition of sale (Normal, Abnorml, etc.). |
| SalePrice | **Target variable** – the price the house was sold for. |

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