```
"cells": [
   "cell_type": "markdown",
   "id": "4f3bc72d".
   "metadata": {},
   "source":[
    "# House Price Predictor with Gradio Ul"
  },
  {
   "cell_type": "code",
   "execution_count": null,
   "id": "b1776eb8",
   "metadata": {},
   "outputs": [],
   "source":[
    "from google.colab import files\n",
    "uploaded = files.upload()\n",
    "\n",
    "import pandas as pd\n",
    "import seaborn as sns\n",
    "import matplotlib.pyplot as plt\n",
    "from sklearn.model_selection import train_test_split\n",
    "from sklearn.linear_model import LinearRegression\n",
    "from sklearn.preprocessing import StandardScaler\n",
    "from sklearn.metrics import mean_squared_error, r2_score\n",
    "\n",
    "# Load dataset (replace 'house.csv' with your filename)\n",
    "df = pd.read_csv('house.csv')\n",
    "\n",
    "# Encode and scale\n",
    "df_encoded = pd.get_dummies(df, drop_first=True)\n",
    "X = df_encoded.drop('price', axis=1)\n",
    "y = df_encoded['price']\n",
    "scaler = StandardScaler()\n",
    "X_scaled = scaler.fit_transform(X)\n",
    "\n",
    "# Train-test split\n",
    "X_train, X_test, y_train, y_test = train_test_split(X_scaled, y, test_size=0.2,
random_state=42)\n",
    "model = LinearRegression()\n",
    "model.fit(X_train, y_train)\n"
   ]
  },
   "cell_type": "code",
   "execution_count": null,
   "id": "d1cb156d",
   "metadata": {},
   "outputs": [],
   "source": [
    "!pip install gradio\n"
  },
   "cell_type": "code",
```

```
"execution_count": null,
  "id": "215db3cc",
  "metadata": {},
  "outputs": [],
  "source":[
   "import gradio as gr\n",
   "\n",
   "def predict_price(bedrooms, bathrooms, sqft_living, sqft_lot, floors, waterfront):\n",
         input_data = {\n"},
              'bedrooms': bedrooms,\n",
              'bathrooms': bathrooms,\n",
              'sqft_living': sqft_living,\n",
              'saft_lot': saft_lot,\n",
              'floors': floors,\n",
              'waterfront': waterfront\n",
         }\n",
   "\n",
         input_df = pd.DataFrame([input_data])\n",
         input_df_encoded = pd.get_dummies(input_df)\n",
         input_df_encoded = input_df_encoded.reindex(columns=X.columns, fill_value=0)\n",
         input_scaled = scaler.transform(input_df_encoded)\n",
         prediction = model.predict(input_scaled)\n",
         return round(prediction[0], 2)\n"
  ]
 },
 {
  "cell_type": "code",
  "execution count": null,
  "id": "75f8aacb",
  "metadata": {},
  "outputs": [],
  "source": [
   "inputs = [\n],
         gr.Number(label=\"Bedrooms\"),\n",
         gr.Number(label=\"Bathrooms\"),\n",
         gr.Number(label=\"Saft Living\"),\n",
         gr.Number(label=\"Sqft Lot\"),\n",
         gr.Number(label=\"Floors\"),\n",
         gr.Number(label=\"Waterfront (0 or 1)\")\n",
   "]\n",
   "\n",
   "output = gr.Number(label=\"Predicted House Price\")\n",
   "gr.Interface(fn=predict_price, inputs=inputs, outputs=output, \n",
                    title=\"House Price Predictor\",\n",
                    description=\"Enter the house features to predict the price.\").launch()\n"
  ]
 }
],
"metadata": {},
"nbformat": 4,
"nbformat_minor": 5
```