

WELCOME TO THE NAAN MUDHALVAN PROJECT

HOUSE PRICE PREDICTION

Team ID: NM2023TMID19767

Team Size : 5

Name : Kaleeswaran G

REG NO:922520106055

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"y = df['Price']"
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    "keras.layers.Dense(units=32, activation='relu',\n",
    "input_shape=(X_train.shape[1],)),\n",
    "keras.layers.Dense(units=64, activation='relu'),\n",
    "keras.layers.Dense(units=1, activation='linear')\n",
    "])\n",
    "model.compile(optimizer='adam', loss='mean_squared_error')\n",
    "model.summary()\n",
    "model.fit(X_train, y_train, batch_size=32, epochs=10, verbose=1)\n",
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}

```

```

        "loss = model.evaluate(X_test, y_test)\n",
        "print(\"Test Loss:\", loss)\n",
        "import seaborn as sns"
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        "plt.title('Correlation Heatmap')\n",
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        "plt.hist(df['Price'], bins=20)\n",
        "plt.title('Distribution of House Prices')\n",
        "plt.xlabel('Price')\n",
        "plt.ylabel('Frequency')\n",
        "plt.show()"
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        "from keras.layers import Dense\n",
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        "X_train, X_test, y_train, y_test = train_test_split(X_scaled, y,\n        test_size=0.2, random_state=42)\n",
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    ]
}

```

```

        "# Scaling the data\n",
        "scaler = StandardScaler()\n",
        "X_train = scaler.fit_transform(X_train)\n",
        "X_test = scaler.transform(X_test)\n",
        "\n",
        "# Creating a sequential model\n",
        "model = Sequential()\n",
        "\n",
        "# Adding input layer\n",
        "model.add(Dense(16, input_dim=X_train.shape[1],
activation='relu'))\n",
        "\n",
        "# Adding first hidden layer\n",
        "model.add(Dense(32, activation='relu'))\n",
        "\n",
        "# Adding second hidden layer\n",
        "model.add(Dense(32, activation='relu'))\n",
        "\n",
        "# Adding output layer\n",
        "model.add(Dense(1, activation='sigmoid'))\n",
        "\n",
        "# Compiling the model\n",
        "model.compile(loss='binary_crossentropy', optimizer='adam',
metrics=['accuracy'])\n",
        "\n",
        "# Fitting the model on train data\n",
        "model.fit(X_train, y_train, epochs=50, batch_size=32,
validation_data=(X_test, y_test))\n",
        "\n",
        "# Evaluating the model on test data\n",
        "loss, accuracy = model.evaluate(X_test, y_test)\n",
        "print(f'Test loss: {loss:.3f}\\nTest accuracy: {accuracy:.3f}')\n",
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