CRUDE OIL PRICE PREDICTION

SOURCE CODE:

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   "import numpy as np # linear algebra\n",
   "import pandas as pd # data processing, CSV file I/O (e.g. pd.read csv)\n",
   "import datetime\n",
   "from pylab import rcParams\n",
   "import matplotlib.pyplot as plt\n",
   "import warnings\n",
    "import itertools\n",
   "import statsmodels.api as sm\n",
   "from keras.models import Sequential\n",
   "from keras.layers import Dense\n",
```

```
"from keras.layers import LSTM\n",
    "from keras.layers import Dropout\n",
    "from sklearn.metrics import mean squared error\n",
    "from keras.callbacks import ReduceLROnPlateau, EarlyStopping, ModelCheckpoint\n",
    "from sklearn.metrics import mean squared error\n",
    "from sklearn.metrics import mean absolute error\n",
    "import seaborn as sns\n",
    "sns.set context(\"paper\", font scale=1.3)\n",
    "sns.set style('white')\n",
     "import math\n",
    "from sklearn.preprocessing import MinMaxScaler\n",
    "# Input data files are available in the \"../input\\" directory.\n",
    "# For example, running this (by clicking run or pressing Shift+Enter) will list all files under the input
directory\n",
     "warnings.filterwarnings(\"ignore\")\n",
     "plt.style.use('fivethirtyeight')\n",
    "import os\n",
    "for dirname, , filenames in os.walk('/kaggle/input'):\n",
        for filename in filenames:\n",
          print(os.path.join(dirname, filename))"
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    "#Read csv file\n",
    "from google.colab import files\n",
     "uploaded = files.upload()"
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        "//\n",
        "// Licensed under the Apache License, Version 2.0 (the \"License\");\n",
        "// you may not use this file except in compliance with the License.\n",
        "// You may obtain a copy of the License at\n",
        "//\n",
        "//
              http://www.apache.org/licenses/LICENSE-2.0\n",
        "//\n",
        "// Unless required by applicable law or agreed to in writing, software\n",
        "// distributed under the License is distributed on an \"AS IS\" BASIS,\n",
        "// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n",
        "// See the License for the specific language governing permissions and \n",
        "// limitations under the License.\n",
        "\n",
        "/**\n".
        " * @fileoverview Helpers for google.colab Python module.\n",
        " */\n",
        "(function(scope) {\n",
        "function span(text, styleAttributes = {}) {\n",
        " const element = document.createElement('span');\n",
        " element.textContent = text;\n",
        " for (const key of Object.keys(styleAttributes)) {\n",
        " element.style[key] = styleAttributes[key];\n",
        " }\n",
        " return element:\n".
        "}\n",
        "\n",
        "// Max number of bytes which will be uploaded at a time.\n",
        "const MAX PAYLOAD SIZE = 100 * 1024;\n",
        "\n".
        "function uploadFiles(inputId, outputId) {\n",
        " const steps = uploadFilesStep(inputId, outputId);\n",
        " const outputElement = document.getElementById(outputId);\n",
        " // Cache steps on the outputElement to make it available for the next call\n",
        " // to uploadFilesContinue from Python.\n",
        " outputElement.steps = steps;\n",
```

```
"\n",
" return uploadFilesContinue(outputId);\n",
"}n".
"\n",
"// This is roughly an async generator (not supported in the browser yet),\n",
"// where there are multiple asynchronous steps and the Python side is going\n",
"// to poll for completion of each step.\n",
"// This uses a Promise to block the python side on completion of each step.\n",
"// then passes the result of the previous step as the input to the next step.\n",
"function uploadFilesContinue(outputId) {\n".
" const outputElement = document.getElementById(outputId);\n",
" const steps = outputElement.steps;\n",
"\n",
" const next = steps.next(outputElement.lastPromiseValue);\n".
" return Promise.resolve(next.value.promise).then((value) => {\n",
" // Cache the last promise value to make it available to the next\n",
" // step of the generator.\n",
" outputElement.lastPromiseValue = value;\n",
" return next.value.response;\n",
" });\n",
"}\n",
"\n",
"/**\n",
" * Generator function which is called between each async step of the upload\n",
" * process.\n",
" * @param {string} inputId Element ID of the input file picker element.\n",
" * @param {string} outputId Element ID of the output display.\n",
" * @return {!Iterable<!Object>} Iterable of next steps.\n",
" */\n".
"function* uploadFilesStep(inputId, outputId) {\n",
" const inputElement = document.getElementById(inputId);\n",
" inputElement.disabled = false;\n",
"\n",
" const outputElement = document.getElementById(outputId);\n",
" outputElement.innerHTML = ";\n",
"\n",
" const pickedPromise = new Promise((resolve) => {\n".
  inputElement.addEventListener('change', (e) => {\n'',
    resolve(e.target.files):\n".
" });\n",
" });\n",
"\n",
" const cancel = document.createElement('button');\n",
" inputElement.parentElement.appendChild(cancel);\n",
" cancel.textContent = 'Cancel upload';\n",
" const cancelPromise = new Promise((resolve) => {\n",
   cancel.onclick = () => \{ n'', 
    resolve(null);\n",
" };\n",
" });\n",
```

```
"\n",
" // Wait for the user to pick the files.\n",
" const files = yield \{\n",
" promise: Promise.race([pickedPromise, cancelPromise]),\n",
" response: {\n",
    action: 'starting',\n",
" }\n",
" };\n",
"\n",
" cancel.remove();\n",
" // Disable the input element since further picks are not allowed.\n",
" inputElement.disabled = true;\n",
"\n",
" if (!files) {\n",
" return \{\n'',
     response: {\n",
      action: 'complete',\n",
     n''
" };\n",
" }\n",
"\n",
" for (const file of files) {\n",
" const li = document.createElement('li');\n",
   li.append(span(file.name, {fontWeight: 'bold'}));\n",
   li.append(span(\n",
"
      (\$\{file.type || 'n/a'\}) - \$\{file.size\} bytes, +n'',
"
      `last modified: ${\n",
"
         file.lastModifiedDate? file.lastModifiedDate.toLocaleDateString():\n",
                         'n/a'} - `));\n",
   const percent = span('0% done');\n",
"
   li.appendChild(percent);\n",
"\n",
" outputElement.appendChild(li);\n",
"\n",
   const fileDataPromise = new Promise((resolve) => {\n",
     const reader = new FileReader();\n",
     reader.onload = (e) \Rightarrow {\n''},
      resolve(e.target.result);\n",
     };\n",
     reader.readAsArrayBuffer(file);\n",
    });\n",
  // Wait for the data to be ready.\n",
   let fileData = yield \{\n'',\
     promise: fileDataPromise,\n",
     response: \{\n'',
      action: 'continue',\n",
     n''
" };\n",
"\n",
```

```
// Use a chunked sending to avoid message size limits. See b/62115660.\n",
     let position = 0;\n",
     do \{\n'',
       const length = Math.min(fileData.byteLength - position, MAX PAYLOAD SIZE);\n",
       const chunk = new Uint8Array(fileData, position, length);\n",
       position += length;\n",
  "\n",
       const base64 = btoa(String.fromCharCode.apply(null, chunk));\n",
       yield \{\n'',
        response: \{\n'',
         action: 'append',\n",
  "
         file: file.name,\n",
         data: base64,\n",
        },\n",
       };\n",
  "\n",
       let percentDone = fileData.byteLength === 0 ?\n",
          100:\n",
  "
         Math.round((position / fileData.byteLength) * 100);\n",
  "
       percent.textContent = `${percentDone}% done`;\n",
  "\n",
     } while (position < fileData.byteLength);\n",</pre>
  " }\n",
  "\n",
  " // All done.\n",
  " yield \{\n'',
  " response: {\n",
      action: 'complete',\n",
  " }\n",
  " };\n",
  "}\n",
  "\n",
  "scope.google = scope.google \| \{ \}; n", 
  "scope.google.colab = scope.google.colab || {};\n",
  "scope.google.colab. files = \{\n",
  " uploadFiles,\n",
  " uploadFilesContinue,\n",
  "};\n",
  "})(self);\n",
  "</script>"
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```

},

]

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  "df[:10]\n"
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1L8.5 8.51.94-2.06 2.06-.94-2.06-.94L8.5 2.51-.94 2.06-2.06.94zm10 101.94 2.06.94-2.06 2.06-.94-2.06-.94-
.94-2.06-.94 2.06-2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-.92-.59-1.43-.59-.52 0-1.04.2-
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.5917.78-7.78 2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.5917.72-7.72 1.47 1.35L5.41 20z\"/>\n",
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             fill: #174EA6;\n",
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             filter: drop-shadow(0px 1px 2px rgba(0, 0, 0, 0.3));\n",
             fill: #FFFFFF;\n",
            n''
        " </style>\n",
         "\n",
             <script>\n",
              const buttonEl =\n'',
                document.querySelector('#df-2367b016-b67f-445c-8b15-4defa2e543d3 button.colab-df-
convert');\n",
              buttonEl.style.display = \n",
        "
                google.colab.kernel.accessAllowed? 'block': 'none';\n",
         "\n",
              async function convertToInteractive(key) {\n",
                const element = document.querySelector('#df-2367b016-b67f-445c-8b15-4defa2e543d3');\n",
                const dataTable = \n'',
         "
                 await google.colab.kernel.invokeFunction('convertToInteractive',\n",
         "
                                          [\text{key}], \{\}); n'',
        "
                if (!dataTable) return;\n",
         "\n",
                const docLinkHtml = 'Like what you see? Visit the '+\n",
                 '<a target=\" blank\"
href=https://colab.research.google.com/notebooks/data_table.ipynb>data_table_notebook</a>'\n",
                 + ' to learn more about interactive tables.';\n",
         "
                element.innerHTML = ";\n",
                dataTable['output type'] = 'display data';\n",
         "
         "
                await google.colab.output.renderOutput(dataTable, element);\n",
                const docLink = document.createElement('div');\n",
                docLink.innerHTML = docLinkHtml;\n",
         "
                element.appendChild(docLink);\n",
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```

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 "df = df.sort values('Date')\n",
 "df = df.groupby('Date')['Closing Value'].sum().reset index()\n",
 "df.set index('Date', inplace=True)\n",
 "df=df.loc[datetime.date(year=2000,month=1,day=1):]"
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```

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"<style scoped>\n",
  .dataframe tbody tr th:only-of-type {\n",
    vertical-align: middle;\n",
"
  n''
"\n",
  .dataframe thody tr th \{\n'',
    vertical-align: top;\n",
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"\n",
  .dataframe thead th \{\n'',
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```

```
"\n",
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              n''.
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1L8.5 8.51.94-2.06 2.06-.94-2.06-.94L8.5 2.51-.94 2.06-2.06.94zm10 101.94 2.06.94-2.06 2.06-.94-2.06-.94-
.94-2.06-.94 2.06-2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-.92-.59-1.43-.59-.52 0-1.04.2-
1.43.59L10.3\ 9.45l-7.72\ 7.72c-.78.78-.78\ 2.05\ 0\ 2.83L4\ 21.41c.39.39.9.59\ 1.41.59.51\ 0\ 1.02-.2\ 1.41-.91.61
.5917.78-7.78 2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.5917.72-7.72 1.47 1.35L5.41 20z\"/>\n",
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```

```
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  "train size = int(len(df) * 0.70)\n",
  "test size = len(df) - train size\n",
  "train, test = df[0:train size, :], df[train_size:len(df), :]"
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  "def create data set( data set, look back=1):\n",
     data x, data y = [], [] \n",
     for i in range(len( data set) - look back - 1):\n",
        a = _data_set[i:(i + _look_back), 0]\n",
        data x.append(a)\n",
        data y.append(_data_set[i + _look_back, 0])\n",
     return np.array(data x), np.array(data y)"
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  "look back = 90\n",
  "X train,Y train,X test,Ytest = [],[],[],[]\setminus n",
  "X_train,Y_train=create_data_set(train,look_back)\n",
  "X train = np.reshape(X train, (X train.shape[0], X train.shape[1], 1))\n",
  "X test,Y test=create data set(test,look back)\n",
  "X test = np.reshape(X test, (X test.shape[0], X test.shape[1], 1))"
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    "regressor = Sequential()\n",
    "\n",
    "regressor.add(LSTM(units = 60, return sequences = True, input shape = (X train.shape[1], 1)))\n",
    "regressor.add(Dropout(0.1))\n",
    "\n",
    "regressor.add(LSTM(units = 60, return sequences = True))\n",
    "regressor.add(Dropout(0.1))\n",
    "\n",
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    "regressor.add(Dropout(0.1))\n",
    "\n",
    "regressor.add(Dense(units = 1))\n",
    "\n".
    "\n",
    "regressor.compile(optimizer = 'adam', loss = 'mean squared error')\n",
    "reduce Ir = ReduceLROnPlateau(monitor='val loss',patience=5)\n",
     "history = regressor.fit(X train, Y train, epochs = 20, batch size = 15, validation data=(X test, Y test),
callbacks=[reduce lr],shuffle=False)"
   ],
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0.0251 - lr: 0.0010\n",
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0.0461 - lr: 0.0010\n",
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```
"train predict = sc.inverse transform(train predict)\n",
  "Y train = sc.inverse transform([Y train])\n",
  "test predict = sc.inverse transform(test predict)\n",
  "Y test = sc.inverse transform([Y test])"
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  "print('Train Root Mean Squared Error:',np.sqrt(mean squared error(Y train[0], train predict[:,0]))\n",
  "print('Test Mean Absolute Error:', mean absolute error(Y test[0], test predict[:,0]))\n",
  "print('Test Root Mean Squared Error:',np.sqrt(mean squared error(Y test[0], test predict[:,0]))\n",
  "plt.figure(figsize=(8,4))\n",
  "plt.plot(history.history['loss'], label='Train Loss')\n",
  "plt.plot(history.history['val loss'], label='Test Loss')\n",
  "plt.title('model loss')\n",
  "plt.ylabel('loss')\n",
  "plt.xlabel('epochs')\n",
  "plt.legend(loc='upper right')\n",
  "plt.show();"
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"Train Root Mean Squared Error: 3.285617879896689\n",
"Test Mean Absolute Error: 2.3989636110004624\n",
"Test Root Mean Squared Error: 5.289593391043789\n"
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