```python
import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import seaborn as sns

from sklearn.model_selection import train_test_split

from sklearn.linear_model import LinearRegression

from sklearn import metrics


# Load the dataset

dataset = pd.read_csv('/home/avcoe/temperatures.csv')


# Data exploration

print(dataset.shape)

print(dataset.describe())


# Data visualization

dataset.plot(x='JAN', y='FEB', style='o', title='JAN vs FEB', xlabel='mintemp', ylabel='maxtemp')

plt.show()


plt.figure(figsize=(15, 10))

sns.distplot(dataset['FEB'])

plt.show()


# Data preparation

X, y = dataset['JAN'].values.reshape(-1, 1), dataset['FEB'].values.reshape(-1, 1)

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=0)


# Model training

model = LinearRegression().fit(X_train, y_train)
```

```python
# Model evaluation

y_pred = model.predict(X_test)

df = pd.DataFrame({'Actual': y_test.flatten(), 'Predicted': y_pred.flatten()})

print(df.head(25))


# Visualization of results

df.head(25).plot(kind='bar', figsize=(16, 10))

plt.grid(which='major', linestyle='-', linewidth='0.5', color='green')

plt.grid(which='minor', linestyle=':', linewidth='0.5', color='black')

plt.show()


plt.scatter(X_test, y_test, color='gray')

plt.plot(X_test, y_pred, color='red', linewidth=2)

plt.show()


# Model evaluation metrics

print('Mean absolute error:', metrics.mean_absolute_error(y_test, y_pred))

print('Mean squared error:', metrics.mean_squared_error(y_test, y_pred))

print('Root mean squared error:', np.sqrt(metrics.mean_squared_error(y_test, y_pred)))
```