

Dataset Setup Guide

This guide will help you download and set up the Brazilian E-Commerce Public Dataset for the BrazilRetail-BI project.

Prerequisites

- Python 3.8+
- Kaggle account
- Kaggle API credentials

Step 1: Install Kaggle CLI

Install the Kaggle command-line tool:

```
pip install kaggle
```

Step 2: Get Your Kaggle API Credentials

- 1 Go to [Kaggle.com](https://kaggle.com) and sign in to your account
- 2 Click on your profile picture (top right) · "Account"
- 3 Scroll down to the "API" section
- 4 Click "Create New API Token"
- 5 This will download a `kaggle.json` file containing your API credentials

Step 3: Place API Credentials

- 1 Move the downloaded `kaggle.json` file to your project root directory:

```
BrazilRetail-BI/  
... kaggle.json  
... ..
```

- 2 **Security Note:** The `kaggle.json` file contains sensitive information. Make sure it's added to your `.gitignore` file (which it should be with the current configuration).

Step 4: Download the Dataset

From your project root directory, run:

```
kaggle datasets download -d olistbr/brazilian-ecommerce
```

This will download the `brazilian-ecommerce.zip` file to your current directory.

Step 5: Extract the Dataset

Unzip the downloaded file:

```
unzip brazilian-ecommerce.zip
```

This will create several CSV files in your current directory.

Step 6: Organize Data Files

- 1 Create the data directory if it doesn't exist:

```
mkdir -p data
```

- 2 Move all the CSV files to the data directory:

```
mv *.csv data/
```

- 3 Clean up the zip file:

```
rm brazilian-ecommerce.zip
```

Final Directory Structure

After setup, your project should look like this:

```
BrazilRetail-BI/  
... data/  
  ... olist_customers_dataset.csv  
  ... olist_orders_dataset.csv  
  ... olist_order_items_dataset.csv  
  ... olist_products_dataset.csv  
  ... olist_sellers_dataset.csv  
  ... olist_order_payments_dataset.csv  
  ... olist_order_reviews_dataset.csv  
  ... product_category_name_translation.csv  
  ... ...  
... docs/  
  ... dataset_setup.md  
... etl/  
... db_schema/  
... .env  
... requirements.txt  
... ...
```

Verification

You can verify the setup by checking that all CSV files are present:

```
ls -la data/
```

You should see 9 CSV files from the Brazilian E-Commerce dataset.

Next Steps

Once the data is set up, you can proceed with:

- 1 Running the ETL pipeline (`python etl/main.py`)
- 2 Creating the database schema (`python db_schema/create_schema.py`)
- 3 Building your dashboards and analytics

Troubleshooting

- **Permission denied:** Make sure `kaggle.json` has the correct permissions: `chmod 600 kaggle.json`
- **API errors:** Verify your Kaggle account has API access enabled
- **Download fails:** Check your internet connection and Kaggle API limits
- **Files not found:** Ensure you're running commands from the project root directory