four-cados

Avocado Prices Forecasting

By

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# Installation and deployment steps

* 1. Create a clone of the repository – “https://github.com/davidmcbee/Health\_and\_Avocados.git”
  2. All required datasets are available in the ‘resources’ folder.
  3. Create the “avocados” database in pgAdmin.
  4. Create a config.py file with credentials to the pdAdmin database.
  5. Run the export\_to\_db.ipynb file to create ‘Climate’, ‘prices’, ‘prod’, and ‘market’ tables.
  6. Run the ./SQL\_queries/queries.sql file to confirm the tables are created in pgAdmin.
     1. Also run the ‘alters’ and ‘create table’ sqls to create the tables needed for data analysis.
  7. Make sure your machine learning environment has all the packages shown in ‘./requirements.txt’ file.
  8. Main ML models are available in the folder ‘./ML\_models’
     1. ARIMA\_Price\_Prod.ipynb
     2. LSTM\_Multivariate\_Prices\_climate.ipynb
     3. LSTM\_basic\_regression\_prices.ipynb
     4. Random\_Forest\_Classifier\_price\_and\_production\_data.ipynb
     5. Random\_Forest\_Regressor\_price\_and\_production\_data.ipynb