# Preprocessing the data

1. \*\*Data Collection\*\*: Gather the necessary data from RoC or other reliable sources. This data can include details about registered companies, such as company names, registration dates, locations, industry classifications, financial data, and any other relevant variables.

#### 2. \*\*Data Cleaning\*\*:

- Handle missing data: Identify and deal with missing values, either by imputation or removal.
- Remove duplicates: Check for and eliminate duplicate records if they exist.

#### 3. \*\*Data Integration\*\*:

- Merge datasets if you have data from multiple sources to create a single, comprehensive dataset.
- Ensure data consistency in terms of column names and data types.

#### 4. \*\*Data Transformation\*\*:

- Encoding categorical variables: Convert categorical data into a numerical format using techniques like one-hot encoding or label encoding.
- Scaling and normalization: Scale numerical features to the same range to prevent certain features from dominating others.
- Feature engineering: Create new features or extract meaningful information from existing ones, like deriving the year from registration dates.

#### 5. \*\*Data Reduction\*\* (if necessary):

- Feature selection: Identify and keep only the most relevant features to reduce dimensionality and improve model performance.
- Dimensionality reduction: Implement techniques like Principal Component Analysis (PCA) to reduce the number of variables.

#### 6. \*\*Data Splitting\*\*:

- Split the dataset into training, validation, and testing subsets. This helps evaluate the model's performance effectively.

- 7. \*\*Handling Imbalanced Data\*\* (if applicable):
- If the dataset is imbalanced (e.g., a significant difference in the number of registered companies over time), consider techniques like oversampling or undersampling to balance the classes.
- 8. \*\*Dealing with Outliers\*\*:
- Identify and handle outliers in the dataset. You can use statistical methods or machine learning techniques to detect and address outliers.
- 9. \*\*Data Visualization\*\*:
- Visualize the data to gain insights into trends, correlations, and distributions. Visualization tools like matplotlib or seaborn can be helpful.
- 10. \*\*Normalization and Standardization\*\*:
  - Standardize or normalize the data to ensure that all features have a similar scale.
- 11. \*\*Data Splitting\*\*:
- Divide the preprocessed data into training and testing sets to train and evaluate the machine learning models.
- 12. \*\*Save Preprocessed Data\*\*:
- Save the preprocessed dataset for future use to ensure consistency when making predictions with your AI model.

## **Program**

import pandas as pd

from sklearn.model\_selection import train\_test\_split

from sklearn.preprocessing import StandardScaler

from sklearn.impute import SimpleImputer

from sklearn.preprocessing import LabelEncoder

from sklearn.preprocessing import OneHotEncoder

```
# Load the dataset
data = pd.read_csv("company_data.csv")
# 1. Data Cleaning
# Handling missing values
data.dropna(inplace=True) # Remove rows with missing values
# 2. Data Transformation
# Encoding categorical variables
label_encoder = LabelEncoder()
data['industry_category'] = label_encoder.fit_transform(data['industry_category'])
# 3. Data Splitting
X = data.drop('target_column', axis=1) # Replace 'target_column' with the actual target
variable
y = data['target_column'] # Replace 'target_column' with the actual target variable
# Split the dataset into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
# 4. Normalization and Standardization (if needed)
scaler = StandardScaler()
X_train = scaler.fit_transform(X_train)
X_test = scaler.transform(X_test)
# Now you can use X_train, X_test, y_train, and y_test for your machine learning model.
# Additional steps like feature engineering and handling outliers can be added as needed
```

for your specific dataset.

```
# Save the preprocessed data (optional)
preprocessed_data = pd.concat([X, y], axis=1)
preprocessed_data.to_csv("preprocessed_company_data.csv", index=False)
```

### Output:

The provided program is mainly focused on data preprocessing, so it doesn't produce any specific output to display in the traditional sense. Instead, it prepares your dataset for further analysis or machine learning by performing the following preprocessing steps:

- 1. \*\*Data Loading\*\*: It loads your dataset from a CSV file (you should replace `'your\_dataset.csv'` with the actual dataset file).
- 2. \*\*Data Cleaning\*\*:
- Handles missing values by imputing them with the mean (you can choose other strategies like 'median' or 'most\_frequent' as well).
- 3. \*\*Encoding Categorical Variables\*\*:
- If your dataset has categorical variables, it applies one-hot encoding to convert them into a numerical format.
- 4. \*\*Splitting the Dataset\*\*:
  - Splits the dataset into features (X) and the target variable (y).
  - Splits the data into training and testing sets using an 80-20 split ratio.
- 5. \*\*Feature Scaling\*\* (if needed):
  - Standardizes the features (X\_train and X\_test) using the StandardScaler from scikit-learn.
- 6. Optional: You can save the preprocessed data if needed using the `to\_csv` method.

The main "output" of this program is the preprocessed dataset, which is now ready for analysis, visualization, or machine learning. The preprocessed data will be stored in the variables `X\_train`, `X\_test`, `y\_train`, and `y\_test` (as well as `X` and `y` if needed).

|                          | A  | B C  | D        | E        | F              | 6                        | н                        | 1 1 | K            | L M N  | . 0  |
|--------------------------|--|--|----------|----------|----------------|--------------------------|--------------------------|-----|--------------|--|--|
| 14                       | F01543   | NYCOMED AJACTV   | NA       | NA       | NA             |                          | Tamii Nadu               | 0   | g NA         | Agriculture &A D 46 1ST (ROC與ELH)  |  |
| 15                       | F01544   | CHERRINGTCACTV   | NA       | NA       | NA             | 01/05/2000               |                          | 0   | g NA         | Agriculture \$10HADDOW(RDC数ELHI  |  |
| 16                       | F01563   | SHIMADZU ANAEF<br>CORK INTERIACTY                                    | NA.      | NA<br>NA | NA<br>NA       | NA<br>NA                 | Tamil Nadu               | 0   | 0 NA         | Agriculture &FIRST FLOORROC設ELHI<br>Agriculture &ARJAY APEXROC設ELHI  |  |
| 17                       | F01565   | ERBIS ENGG ACTV  | NA<br>NA | NA<br>NA | NA<br>NA       | NA<br>NA                 | Tamil Nadu<br>Tamil Nadu | 0   | 0 NA         | Agriculture & ARJAY APEXROC SELHI<br>Agriculture & 39.2nd Main ROC SELHI   |  |
| 19                       | F01589   | RALF SCHNENAEF   | NA.      | NA       | NA             | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture &FLAT C, SAI ROC装ELHI  |  |
| 20                       | F01593   | MITRAJAYA ACTV   | NA       | NA       | NA             | NA                       | Tamil Nadu               | 0   | g NA         | Agriculture &OLD NO 148 ROC製ELHI   |  |
| 21                       | F01618   | HEAT AND CACTV   | NA.      | NA       | NA.            | 13/07/1999               |                          | 0   | 0 NA         | Agriculture &A40 OLD NO RDC数ELHI   |  |
| 22                       | F01628   | DIREX SYSTEACTV  | NA       | NA       | NA.            | NA                       | Tamil Nadu               | 0   | 0 NA         | Agriculture &F-1, FIRST FLRDC發ELHI   | direx@vsnt.  |
| 23                       | F01641   | NMB-MINEBENAEF   | NA       | NA       | NA.            | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture &Level - 2 ReguROC製ELHI  | stsogawa@  |
| 24                       | F01643   | ARROW INTEACTV   | NA.      | NA       | NA             | 02/11/1999               | Tamil Nadu               | 0   | g NA         | Agriculture &BLUE HAVENROC 禁ELHI   |  |
| 28                       | F01694   | GAMBRO CHIACTY   | NA       | NA       | NA             | 14/06/2000               | Tamil Nadu               | 0   | D NA         | Agriculture &5 IST FLOOR ROC類ELHI  |  |
| 26                       | F01703   | OBARA CORFNAEF   | NA       | NA       | NA.            |                          | Tamil Nadu               | 0   | g NA         | Agriculture &INDIA BRAN(ROC與ELHI   |  |
| 27                       | F01752   | CIPTA WAWJACTV   | NA       | NA       | NA             |                          | Tamii Nadu               | 0   | 0 NA         | Agriculture &141 AVVAI SROC就ELHI   |  |
| 28                       | F01753   | AUCHAN INTACTV   | NA       | NA       | NA             | NA                       | Tamil Nadu               | .0  | 0 NA         | Agriculture SRK Tower, NcRDC與ELHI  |  |
| 29                       | F01767<br>F01768                               | TOSHIBA PLINAEF<br>YAMAZEN CINAEF                                    | NA<br>NA | NA<br>NA | NA<br>NA       | 08/03/2001<br>NA         | Tamil Nadu<br>Tamil Nadu | 0   | 0 NA         | Agriculture &HOTEL AMB/ROC SELHI   |  |
| 30                       | F01770   | OWL INTERNACTY   | NA<br>NA | NA.      | NA.            | 22/03/2001               |                          | 0   | 0 NA         | Agriculture &PLOT 69, SIV-ROC類ELHI<br>Agriculture &NO 1 SAPTHROC類ELHI  |  |
| 32                       | F01826   | LEXMARK INACTV   | NA       | NA       | NA             | 16/08/2001               |                          | 0   | 0 NA         | Agriculture & APEEJAY BUROC SELHI  |  |
| 33                       | F01830   | FLUID ENERGACTY  | NA       | NA       | NA             | NA.                      | Tamii Nadu               | 0   | 0 NA         | Agriculture &FLUID ENER(ROC数ELHI   | jeeva@fecir  |
| 34                       | F01861   | WATCH GUAACTV  | NA       | NA       | NA             | 21/11/2001               | Tamil Nadu               | 0   | g NA         | Agriculture &54/2, paulweROCSELHI  |  |
| 35                       | F01578   | SINAR JERUIACTV  | NA       | NA       | NA             |                          | Tamil Nadu               | 0   | 0 NA         | Agriculture & 57/4 SEVEN ROC獎ELHI  |  |
| 36                       | F01918   | SIPLEC INTELECTY   | NA       | NA       | NA             | 23/09/1995               |                          | 0   | 0 NA         | Agriculture \$III FLOOR PAROC發ELHI   |  |
| 37                       | F01935   | INTELSAT GLACTV  | NA.      | NA       | NA.            | 20/05/2005               |                          | 0   | 0 NA         | Agriculture &TPL HOUSE IROC類ELHI   |  |
| 38                       | F01940   | PGS GEOPHIACTV   | NA       | NA       | NA             |                          | Tamil Nadu               | 0   | 0 NA         | Agriculture &ROOM305&3ROC發ELHI   |  |
| 39                       | F01987   | SEVERN GLOACTV   | NA.      | NA.      | NA             | 29/08/2002               |                          | 0   | 0 NA         | Agriculture & BB SRV AVENROC 数ELHI   |  |
| 40                       | F02028<br>F02061                               | LAGERWEY VACTV   | NA       | NA<br>NA | NA<br>NA       | 24/10/2002               |                          | 0   | 0 NA         | Agriculture & SUJATHA CEROC 禁ELHI  |  |
| 41                       | F02098   | JAN DE NULACTY   | NA<br>NA | NA.      | NA<br>NA       | NA<br>NA                 | Tamii Nadu<br>Tamii Nadu | 0   | O NA         | Agriculture &O No.11,N NiRDC数ELHI<br>Agriculture &ENNORE CO/RDC数ELHI   |  |
| 42                       | F02098   | BUCKMAN LIACTY   | NA<br>NA | NA<br>NA | NA<br>NA       | D5/02/2003               |                          | 0   | 0 NA         | Agriculture & 50 ANNA SAROC SELHI  |  |
| 44                       | F02110   | ZWICK ASIA ACTV  | NA.      | NA.      | NA             |                          | Tamil Nadu               | 0   | o NA         | Agriculture &3D SAI KIRAROCHELHI   |  |
| 45                       | F02122   | INVE THAILANAEF  | NA       | NA       | NA             | NA.                      | Tamii Nadu               | 0   | 0 NA         | Agriculture &PLOT NO 34 ROC就ELHI   |  |
| 46                       | F02126   | SUNLEY FASIACTY  | NA       | NA.      | NA             | 12/03/2003               | Tamil Nadu               | 0   | 0 NA         | Agriculture &10DR TV RO/ROC 就ELHI  |  |
| 47                       | F02143   | ROTHE ERDENAEF   | NA       | NA       | NA             | NA                       | Tamii Nadu               | D   | 0 NA         | Agriculture & 6E GEE GEE IROC發ELHI   | NA   |
| 48                       | F02157   | RANGASWAIACTV  | NA       | NA       | NA             | NA                       | Tamii Nadu               | 0   | g NA         | Agriculture & SITE NO.25/淋0C数ELHI  |  |
| 49                       | F02189   | EASTMAN FIACTV   | NA       | NA       | NA             | 16/08/2003               | Tamil Nadu               | 0   | 0 NA         | Agriculture &28ARUNACHROC残ELHI   |  |
| 50                       | F02222   | XAMBALA INNAEF   | NA       | NA       | NA             | NA                       | Tamil Nadu               | 0   | g NA         | Agriculture &No 65, ValluyRDC效ELHI   |  |
| 51                       | F02235   | DAINTEE LIMACTV  | NA       | NA       | NA             | 05/11/2003               |                          | 0   | 0 NA         | Agriculture \$NO 21 GROURDC赞ELHI   |  |
| 52                       | F02253   | COLUMBIA SIACTY  | NA       | NA       | NA             | NA.                      | Tamil Nadu               | 0   | g NA         | Agriculture &MF-7 CIPET (ROC效ELH)  |  |
| 53                       | F02261<br>F02262                               | AJINOMOTO NAEF   | NA<br>NA | NA<br>NA | NA<br>NA       | NA<br>21/01/2004         | Tamii Nadu               | 0   | 0 NA         | Agriculture &2B CENTURYROC 競ELHI<br>Agriculture &123/1, POONROC 禁ELHI  |  |
| 54<br>55                 | F02297   | DANKOTUWACTV   | NA.      | NA:      | NA<br>NA       |                          | Tamil Nadu               | 0   | 0 NA<br>0 NA | Agriculture & Old No 15 & RDC数ELHI   |  |
| 56                       | F02337   | PUNCAK NAACTV  | NA.      | NA       | NA             | 26/07/2004               |                          | 0   | 0 NA         | Agriculture & STH FLOOR ROCS ELHI  |  |
| 57                       | FD2339   | SIGMA CORPNAEF   | NA       | NA       | NA             | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture &NO.5, EMERAROC群ELHI   |  |
| 58                       | F02372   | CARGO COMIACTV   | NA       | NA       | NA             | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture &S NO 105 DBRDC就ELHI   |  |
| 59                       | F02378   | HETTIGODA IACTV  | NA       | NA       | NA             | 17/09/2004               | Tamit Nadu               | 0   | 0 NA         | Agriculture & STALLNO.14 ROC 禁ELHI   |  |
| 60                       | F02394   | PROPLUS SYACTV   | NA       | NA       | NA             | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture & PLOT 45, KA(ROC) ELHI  |  |
| 61                       | F02418   | DEUTSCHE VACTV   | NA.      | NA       | NA             | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture \$54 K P N COIROC發ELHI   |  |
| 62                       | F02443   | NORPROTEXACTV  | NA.      | NA       | NA             | NA.                      | Tamil Nadu               | 0   | a NA         | Agriculture \$31 VENKATNROC费ELHI   | NA   |
| 63                       | F02446   | PANASIA REINAEF  | NA       | NA       | NA:            | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture &C/G PADMA\ROC質ELHI  |  |
| 54                       | F02466   | SAIPEM PORACTV   | NA       | NA       | NA             | NA                       | Tamil Nadu               | 0   | g NA         | Agriculture &NO.4, FOURT ROC 與ELHI   |  |
| 65                       | F02478   | KDPS INFOTIACTY  | NA       | NA       | NA.            | 31/03/2005               |                          | 0   | O NA         | Agriculture &11TH FLOORROC發ELHI  |  |
| 67                       | F02492<br>F02507                               | SEBCORP ENACTV<br>ETS MONTELACTV                                     | NA<br>NA | NA<br>NA | NA<br>NA       | 27/04/2005               |                          | 0   | 0 NA<br>0 NA | Agriculture &8 TH FLOOR ROC競ELHI<br>Agriculture &Old no.18, NrROC残ELHI   |  |
| 68                       | F02522   | ITAC UK LTD NAEF   | NA.      | NA       | NA             | NA NA                    | Tamil Nadu               | 0   | g NA         | Agriculture SANMOL PALROC製ELHI   |  |
| 69                       | F02537   | EOS GMBH EACTV   | NA.      | NA       | NA             | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture & Ground FloorROC 禁ELHI  |  |
| 70                       | F02594   | CHANDRA INACTV   | NA       | NA       | NA             | 08/09/2005               |                          | 0   | 0 NA         | Agriculture &NO 46 RK MIROC就ELHI   |  |
| 71                       | F02608   | SCG TRADINIACTV  | NA       | NA       | NA             | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture SFLAT NO 4-B ROC發ELHI  |  |
| 72                       | F02630   | GLOBAL BRAIACTV  | NA       | NA       | NA             | NA                       | Tamil Nadu               | 0   | 0 NA         | Agriculture &SUITE NO 40RDC與ELHI   |  |
| 73                       | F02673   | EXPONENTIMAEF  | NA       | NA       | NA             | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture &NEW NO - 28ROC發ELHI   |  |
| 74                       | FD2694   | ATHEROS ININAEF  | NA       | NA       | NA             | NA.                      | Tamil Nadu               | 0   | 0 NA         | Agriculture &141, TVH AGROC發ELHI   |  |
| 75                       | F02695   | DEICHMANNACTV  | NA       | NA       | N.A            | NA                       | Tamil Nadu               | 0   | 0 NA         | Agriculture &PRINCE TOWROC禁ELHI  |  |
| 76                       | F02734   | NSK LIMITEDNAEF  | NA.      | NA       | NA             | 29/05/2006               |                          | 0   | 0 NA         | Agriculture & Old No.5 / NiRDC数ELHI  |  |
| 77                       | F02738<br>F02749                               | ONYX ASIA FACTV<br>TETRIBERICAACTV                                   | NA<br>NA | NA<br>NA | NA<br>NA       | 29/05/2006               |                          | D   | 0 NA         | Agriculture SND 6.RAJA MROC姓ELHI   |  |
| 78                       | F02753   | POCLAIN HYNAEF   | NA<br>NA | NA       | NA<br>NA       | 09/06/2006               | Tamil Nadu               | 0   | 0 NA<br>0 NA | Agriculture &NO. 16, ANN,ROC 現ELHI<br>Agriculture &APEEJAY BURDC 理ELHI   |  |
| 80                       | F02758   | WELCH ALLYACTY   | NA.      | NA       | NA             | 27/06/2006               |                          | 0   | 0 NA         | Agriculture &FLAT NO.3C, ROCOELHI  |  |
| 81                       | F02770   | ONESTEEL RIACTY  | NA       | NA       | NA.            | 11/07/2006               |                          | 0   | g NA         | Agriculture & JAMALS FAZROC器ELHI   |  |
| 82                       | F02772   | CHARABOT SACTV   | NA       | NA       | NA             | 22/07/2006               |                          | 0   | 0 NA         | Agriculture & CHARABOT IROC 就ELHI  |  |
| 83                       | F02785   | CONVANTA INAEF   | NA       | NA       | NA             | 20/08/2006               |                          | 0   | 0 NA         | Agriculture &62/63, OXFOROC發ELHI   | prhalagicos  |
| 84                       | F02793   | BIOMIN SINGACTY  | NA       | NA       | NA             | 24/08/2006               |                          | 0   | 0 NA         | Agriculture & 2nd Floor, NcROC號ELHI  | nanda kum  |
| 85                       | F02795   | BEN SHERMACTV  | NA       | NA       | NA             | 24/08/2006               |                          | 0   | 0 NA         | Agriculture &Old No.6, NeiROC發ELHI   |  |
| 86                       | F02798   | TREXTA INDIACTV  | NA       | NA       | NA             | 04/09/2006               |                          | 0   | g NA         | Agriculture &22, PADMAN RDC效ELHI   |  |
| 87                       | F02812   | TITANUS S AACTV  | NA       | NA.      | NA.            | 18/09/2006               |                          | 0   | 0 NA         | Agriculture &9 VELAYUDHROC類ELHI  |  |
| 88                       | F02813<br>F02817                               | SSM SCHARENAEF   | NA<br>NA | NA<br>NA | NA<br>NA       |                          | Tamil Nadu               | 0   | 0 NA         | Agriculture &II FLOOR GEERDC 製ELHI<br>Agriculture &1-A, SARGUNRDC 製ELHI  |  |
| 90                       | F02817   | PIEL COLOR INAEF<br>SCHMIDT ELIACTY                                  | NA<br>NA | NA<br>NA | NA<br>NA       | 21/09/2006               |                          | 0   | 0 NA<br>0 NA | Agriculture & 1-A, SARGUNRUC MELHI<br>Agriculture & c/o BIZPRO SRDC MELHI  |  |
| 90                       | F02828<br>F02830                               | GEOPETROL ACTV   | NA<br>NA | NA<br>NA | NA<br>NA       | 29/09/2006               |                          | 0   | 0 NA         | Agriculture & Lakshmi ChaRDC 禁ELHI   |  |
| 91                       | F02837   | ROHM SEMICNAEF   | NA.      | NA       | NA.            |                          | Tamil Nadu               | 0   | g NA         | Agriculture &UNIT 103, IS ROC SELHI  |  |
| 93                       | F02842   | STAHL CRANNAEF   | NA       | NA       | NA             |                          | Tamil Nadu               | 0   | 0 NA         | Agriculture & Door No. 19-ROC SELHI  |  |
| 94                       | F02846   | CHARABOT SACTV   | NA       | NA       | NA             | 23/10/2006               |                          | 0   | 0 NA         |  |  |
| 95                       | F02871   | REVO TRADINAEF   | NA       | NA       | NA             | 30/11/2006               |                          | 0   | o NA         | Agriculture & 6, 2A/2C, ISTROC録ELHI  | mvgfca@gr  |
| 96                       | F02884   | TERUMO COFACTY   | NA       | NA       | NA             |                          | Tamil Nadu               | 0   | o NA         | Agriculture &2nd Floor, 'C' ROC 禁ELHI  |  |
| 97                       | F02898   | BCE CANCO ACTV   | NA       | NA       | NA             |                          | Tamil Nadu               | 0   | a NA         | Agriculture & Citi Centre, LiROC與ELHI  | A STATE OF THE PARTY OF THE PAR |
| 98                       | F02908   | S & V INDUSTACTV   | NA       | NA       | NA             | 24/01/2007               |                          | 0   | 0 NA         | Agriculture &No.114,SoutIRDC效ELHI  |  |
| 99                       | F02910   | ANSALDO CAACTV   | NA       | NA       | NA<br>NA       |                          | Tamil Nadu               | 0   | O NA         | Agriculture &NO 53 HABIEROC姓ELHI   |  |
| 100                      |  | TDK SINGAPACTV   | NA<br>NA | NA<br>NA | NA<br>NA       |                          | Tamil Nadu               | 0   | 0 NA         | Agriculture &C/O M. ANARROC残ELHI<br>Agriculture &714A, 7TH FIROC發ELHI  |  |
| 101                      |  | MURATA ELENAEF<br>CALYX HEAL'ACTV                                    | NA<br>NA | NA<br>NA | NA<br>NA       | 12/02/2007               | Tamii Nadu               | 0   | 0 NA<br>0 NA | Agriculture &714A, 7TH FIROC發ELHI<br>Agriculture &S-2, KurinchilROC發ELHI   |  |
| 102                      |  | ALKYON HYENAEF   | NA<br>NA | NA<br>NA | NA<br>NA       | 26/02/2007               |                          | 0   | 0 NA         | Agriculture & S-2, KurinchiiROC  |  |
|                          |  | ULTRAMATICNAEF   | NA<br>NA | NA       | NA<br>NA       | 01/03/2007               |                          | 0   | 0 NA         | Agriculture &NEW NO. 63, ROCOELHI  |  |
| 104                      |  | MERO ASIA FACTV  | NA       | NA       | NA             | 02/03/2007               |                          | 0   | 0 NA         | Agriculture & SYMTEC BUILDOC SELHI   |  |
| 104                      | F02942   |  |          | NA       | NA             | 20/03/2007               |                          | 0   | 0 NA         | Agriculture & BHAGYAM C/ROC禁ELHI   |  |
|                          |  | UMDAN JAY/ACTV   | NA.      |          |                | 20/03/2007               |                          | 0   | 0.NA         | Agriculture &SHOP NO.12 ROC 禁ELHI  | sifani@airte   |
| 105                      | F02956   | UMDAN JAYACTV<br>SIFANI JEWEACTV                                     | NA.      | NA       | NA             |                          |                          |     |              |  |  |
| 105<br>106               | F02956<br>F02958<br>F02959                     | SIFANI JEWEACTV<br>BDS TECHNIACTV                                    |          | NA       | NA             | 20/03/2007               | Tamil Nadu               | 0   | 0 NA         | Agriculture & 2ND FLOOR (ROC類ELH)  |  |
| 105<br>106<br>107        | F02956<br>F02958<br>F02959<br>F02976           | SIFANI JEWEACTV  | NA       | NA<br>NA | NA<br>NA       | 31/03/2007               | Tamil Nadu               | 0   | 0.NA         | Agriculture &Indeco ConsiROC發ELHI  | ronnie.tok@  |
| 105<br>106<br>107<br>108 | F02956<br>F02958<br>F02959<br>F02976<br>F03000 | SIFANI JEWEACTV<br>BDS TECHNIACTV<br>INDECO CONACTV<br>MDA LTD. ACTV | NA<br>NA | NA<br>NA | NA<br>NA<br>NA | 31/03/2007<br>24/04/2007 | Tamil Nadu<br>Tamil Nadu |     | 0 NA<br>0 NA | Agriculture &Indeco ConsiRDC数ELHI<br>Agriculture &# A(8) ( Old #ROC数ELHI</td><td>ronnie.tok@<br>alex.wemer</td></tr><tr><td>105<br>106<br>107<br>108<br>109<br>110</td><td>F02956<br>F02958<br>F02959<br>F02976<br>F03000<br>F03004</td><td>SIFANI JEWEACTV<br>BDS TECHNIACTV<br>INDECO CONACTV<br>MDA LTD. ACTV<br>ASSEMBLY &NAEF</td><td>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA</td><td>31/03/2007<br>24/04/2007<br>25/04/2007</td><td>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu</td><td>0<br>0</td><td>0 NA<br>0 NA<br>0 NA</td><td>Agriculture &Indeco ConsiRDC發ELHI<br>Agriculture &# A(8) ( Old /ROC發ELHI<br>Agriculture &18, NEW SCHROC發ELHI</td><td>ronnie.tok@<br>alex.werner<br>ksoundarar</td></tr><tr><td>105<br>106<br>107<br>108<br>109<br>110<br>111<br>112</td><td>F02956<br>F02958<br>F02959<br>F02976<br>F03000<br>F03004<br>F03011</td><td>SIFANI JEWEACTV BDS TECHNIACTV INDECO CONACTV MDA LTD. ACTV ASSEMBLY & NAEF TWIN DISC INNAEF</td><td>NA<br>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA<br>NA</td><td>31/03/2007<br>24/04/2007<br>25/04/2007<br>05/05/2007</td><td>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu</td><td>0<br>0<br>0</td><td>0 NA<br>0 NA<br>0 NA<br>0 NA</td><td>Agriculture &Indeco ConsiRDC發ELHI<br>Agriculture &# A(8) ( Old #ROC發ELHI<br>Agriculture &18, NEW SCHRDC發ELHI<br>Agriculture &EL HEIGHTS, ROC發ELHI</td><td>ronnie.tok@<br>alex.werner<br>ksoundarar<br>victor.ramer</td></tr><tr><td>105<br>106<br>107<br>108<br>109<br>110<br>111<br>112</td><td>F02956<br>F02958<br>F02959<br>F02976<br>F03000<br>F03004<br>F03011<br>F03016</td><td>SIFANI JEWEACTV BDS TECHNIACTV INDECO CONACTV MDA LTD. ACTV ASSEMBLY &NAEF TWIN DISC INNAEF LOTUS FOOTACTV</td><td>NA<br>NA<br>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA<br>NA<br>NA</td><td>31/03/2007<br>24/04/2007<br>25/04/2007<br>05/05/2007<br>11/05/2007</td><td>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu</td><td>0<br>0<br>0<br>0</td><td>0 NA<br>0 NA<br>0 NA<br>0 NA<br>0 NA</td><td>Agriculture & Indeco ConsiRDC禁ELHI<br>Agriculture & # A(8) ( Old #ROC禁ELHI<br>Agriculture & 18, NEW SCHROC禁ELHI<br>Agriculture & EL HEIGHTS, ROC禁ELHI<br>Agriculture & PLOT NO 3BROC禁ELHI</td><td>ronnie.tok§<br>alex.werner<br>ksoundarar<br>victor.ramer<br>karthika.log</td></tr><tr><td>105<br>106<br>107<br>108<br>109<br>110<br>111<br>112<br>113</td><td>F02956<br>F02958<br>F02959<br>F02976<br>F03000<br>F03004<br>F03011<br>F03016<br>F03018</td><td>SIFANI JEWEACTV BDS TECHNIACTV INDECO CONACTV MDA LTD. ACTV ASSEMBLY & NAEF TWIN DISC INNAEF LOTUS FOOTACTV HANKYU EXINAEF</td><td>NA<br>NA<br>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA<br>NA<br>NA<br>NA</td><td>31/03/2007<br>24/04/2007<br>25/04/2007<br>05/05/2007<br>11/05/2007<br>11/05/2007</td><td>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu</td><td>0<br>0<br>0<br>0</td><td>0 NA<br>0 NA<br>0 NA<br>0 NA<br>0 NA<br>0 NA</td><td>Agriculture & Indeco ConsiRDCSELHI<br>Agriculture & F. A(8) ( Old AGRICULTURE & I.S. (NO SCHROOSSELHI<br>Agriculture & I.S. (NO SCHROOSSELHI<br>Agriculture & PLOT NO SERDCSELHI<br>Agriculture & PLOT NO SERDCSELHI<br>Agriculture & ELEVEL & CHEROCSSELHI</td><td>ronnie toksi<br>alex, werner<br>ksounderer<br>victor rame<br>karthika log<br>heimaaghi</td></tr><tr><td>105<br>106<br>107<br>108<br>109<br>110<br>111<br>112<br>113<br>114</td><td>F02956<br>F02958<br>F02959<br>F02976<br>F03000<br>F03004<br>F03011<br>F03016<br>F03018<br>F03046</td><td>SIFANI JEWEACTV BDS TECHNIACTV INDECO CONACTV MPA LTD. ACTV ASSEMBLY &NAEF TWIN DISC INVAEF LOTUS FOOTNACTV HANKYU EXINAEF BELLUTI RAPACTV</td><td>NA<br>NA<br>NA<br>NA<br>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA<br>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA<br>NA<br>NA<br>NA<br>NA</td><td>31/03/2007<br>24/04/2007<br>25/04/2007<br>05/05/2007<br>11/05/2007<br>11/05/2007<br>05/06/2007</td><td>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu</td><td>0<br>0<br>0<br>0<br>0<br>0</td><td>0 NA<br>0 NA<br>0 NA<br>0 NA<br>0 NA<br>0 NA<br>0 NA</td><td>Agriculture & Indeco ConsiRDC SELHI<br>Agriculture & F. A. (8) ( Old JROC SELHI<br>Agriculture & F. B. NEW SCHOOLSELHI<br>Agriculture & EL HEIGHTS, ROC SELHI<br>Agriculture & FLOT NO SERIOC SELHI<br>Agriculture & ELEVEL & CHEROC SELHI<br>Agriculture & NEW # 4 (ELEROC SELHI<br>Agriculture & NEW # 4 (ELEROC SELHI</td><td>ronnie.tok@<br>alex.werner<br>ksoundarar<br>victor.rame<br>karthika.log<br>heimaa@hu<br>kafeel@bell</td></tr><tr><td>105<br>106<br>107<br>108<br>109<br>110<br>111<br>112<br>113</td><td>F02956<br>F02958<br>F02959<br>F02976<br>F03000<br>F03004<br>F03011<br>F03016<br>F03018<br>F03046<br>F03061</td><td>SIFANI JEWEACTV BDS TECHNIACTV INDECO CONACTV MDA LTD. ACTV ASSEMBLY & NAEF TWIN DISC INNAEF LOTUS FOOTACTV HANKYU EXINAEF</td><td>NA<br>NA<br>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA<br>NA<br>NA</td><td>NA<br>NA<br>NA<br>NA<br>NA<br>NA</td><td>31/03/2007<br>24/04/2007<br>25/04/2007<br>05/05/2007<br>11/05/2007<br>11/05/2007</td><td>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu<br>Tamil Nadu</td><td>0<br>0<br>0<br>0</td><td>0 NA<br>0 NA<br>0 NA<br>0 NA<br>0 NA<br>0 NA</td><td>Agriculture & Indeco ConsiRDCSELHI<br>Agriculture & F. A(8) ( Old AGRICULTURE & I.S. (NO SCHROOSSELHI<br>Agriculture & I.S. (NO SCHROOSSELHI<br>Agriculture & PLOT NO SERDCSELHI<br>Agriculture & PLOT NO SERDCSELHI<br>Agriculture & ELEVEL & CHEROCSSELHI</td><td>ronnie.tokg<br>alex.werner<br>ksoundarar<br>victor.rame<br>karthika.log<br>heimaa@hu<br>kafeel@bell<br>EXT-KARLO</td></tr></tbody></table> |  |

You can continue your analysis or machine learning tasks with the preprocessed data, such as building models, performing exploratory data analysis, or any other specific task you have in mind.