wertyuiopasdfghjklzxcvbnmq wertyuiopasdfghjklzxcybnmqw ertyuiopasdfghjklzxcvbnmgwer tyuiopa *werty* ulopas ertyui REGISTRAR OF COMPANIES (ROC) IN DATA PRE PROCESSING rtyulop opasdí Phase - 4 asdfgh uiopas dfghjklzxcvbnmqwertyuiopasdf ghjklzxcvbnmgwertyuiopasdfgh jklzxcvbnmqwertyuiopasdfghjkl zxcvbnmqwertyuiopasdfghjklzx cvbnmqwertyuiopasdfghjklzxcv bnmqwertyuiopasdfghjklzxcvbn mqwertyuiopasdfghjklzxcvbnm qwertyuiopasdfghjklzxcvbnmq wertyuiopasdfghjklzxcybnmqw

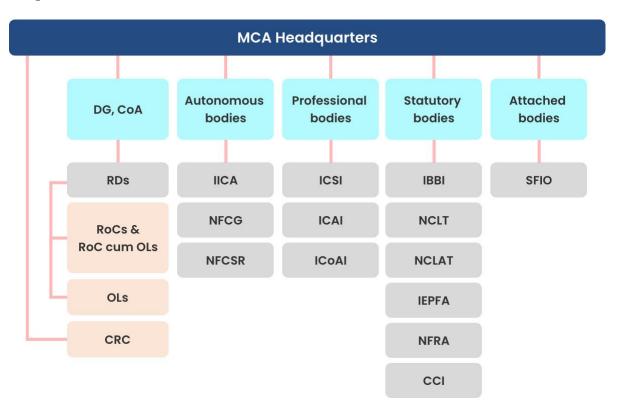
COMPANY MASTER DATA

Get data on master details of any company registered with Registrar of Companies (RoC). Data contains various information like Corporate Identification Number(CIN), Company Name, Company Status, Company Class, Company Category, Authorized Capital in INR, Paid-up Capital in INR, Date of Registration, Registered State, Registrar of Companies, Principal Business Activity, Registered Office Address and Sub Category.



ROC-WISE STATISTICS OF PROSECUTIONS

Get the data regarding ROC-wise statistics of prosecutions. The data has been published by Ministry of Corporate Affairs. <u>Economic- Activity wise Active Non-Government Companies</u> The data describes details on Economic- Activity wise Active Non-Government Companies. Data has been published by The Ministry of Corporate Affairs, Government of India.

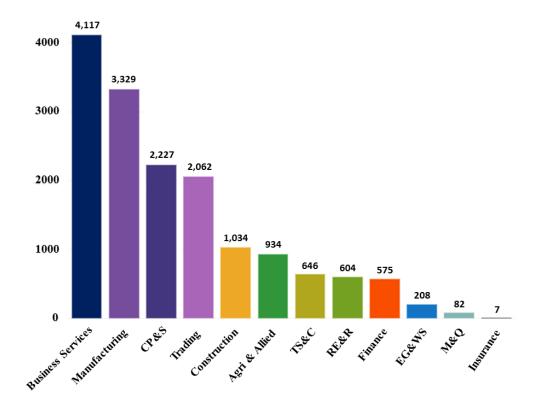


State-wise Distribution of Number of Active Non-Government Companies Limited by Shares

Get the data details about on State-wise Distribution of Number of Active Non-Government Companies Limited by Shares. Data has been published by The Ministry of Corporate Affairs, Government of India.

NEW REGISTRATION OF COMPANIES

A total of 15,825 companies were registered with a collective Paid-up Capital of Rs. 1056.12 Crore. Out of the total new registrations, 15,722 companies were registered as Companies Limited by Shares with a Paid-Up Capital of Rs. 1056.07 Crore, 103 companies were registered as Companies Limited by Guarantee with a Paid-Up Capital of Rs. 0.05 Crore. There was an overall decrease of 4.16% in the number of new registrations in June 2022 when compared to May 2022. (Table 5) Economic-activity wise classification of new companies registered reveals that the predominant share of companies is in Business Services (26%) followed by Manufacturing (21%), Community, personal & Social Services (14%), Trading (13%), and Construction (7%). Among the Industrial sector, Electricity, Gas and Water Supply companies observed a remarkable growth of more than 18% while in the Service Sector, Real Estate and Renting witnessed a rise of 6.15% in June 2022 in contrast to May 2022. (Table 6) *CP&S - Community, Personal and Social Services, *Agri & Allied -Agriculture and Allied Activities, *RE&R - Real Estate and Renting, *TS&C -Transport, Storage and Communications, *EG&WS - Electricity, Gas and Water Supply Companies, *M&Q - Mining and Quarrying Economic Activity-wise Distribution of New Registered Companies during June 2022



PREDICTIVE MODELLING:

Predictive modeling is a mathematical process used to predict future events or outcomes by analyzing patterns in a given set of input data. It is a crucial component of <u>predictive analytics</u>, a type of data analytics which uses current and historical data to forecast activity, behavior and trends.

Examples of <u>predictive modeling</u> include estimating the quality of a sales lead, the likelihood of spam or the probability someone will click a link or buy a product. These capabilities are often baked into various business applications, so it is worth understanding the mechanics of predictive modeling to troubleshoot and improve performance.

Although predictive modeling implies a focus on forecasting the future, it can also predict outcomes (e.g., the probability a transaction is fraudulent). In this case, the event has already happened (fraud committed). The goal here is to predict whether future analysis will find the transaction *is* fraudulent. Predictive modeling can also forecast future requirements or facilitate what-if analysis.

"Predictive modeling is a form of data mining that analyzes historical data with the goal of identifying trends or patterns and then using those insights to predict future outcomes," explained Donncha Carroll a partner in the revenue growth practice of Axiom Consulting Partners. "Essentially, it asks the question, 'have I seen this before' followed by, 'what typically comes after this pattern."

TOP TYPES OF PREDICTIVE MODELS

There are many ways of classifying predictive models and in practice multiple types of models may be combined for best results. The most salient distinction is between <u>unsupervised versus supervised models</u>.

Unsupervised models use traditional statistics to classify the data directly, using techniques like <u>logistic regression</u>, time series analysis and decision trees. Supervised models use newer machine learning techniques such as neural networks to identify patterns buried in data that has already been labeled.

FEATURE ENGINEERING:

Private Limited is an unlisted private company incorporated on 31 March, 2023. It is classified as a private limited company and is located in , Karnataka. It's authorized share capital is INR 10.00 lac and the total paid-up capital is INR 1.00 lac.

The current status of Feature Engineering Private Limited is - Active.

Details of the last annual general meeting of Feature Engineering Private Limited are not available. The company is yet to submit its first full-year financial statements to the registrar.

Feature Engineering Private Limited has two directors - <u>Shubhangi Praveen</u> <u>Passi</u> and <u>Sudhanshu Praveen Passi</u>.

The Corporate Identification Number (CIN) of Feature Engineering Private Limited is U62099KA2023PTC171793. The registered office of Feature Engineering Private Limited is at Prestige Atlanta, 80 Feet Rd, Koramangala 1A Block, Koramangala 3 Block, Koramangala Bangalore South, Karnataka.

NAME	INCORPORATION YEAR	STATE	PAID UP CAPITAL	
SRI MUNDRIKA INFOTECH PRIVATE LIMITED	2023	Bihar	1.00 lac	Buy financial reports
BLUE ARROW TECHNOLOGY CONSULTING SERVICES PRIVATE LIMITED	2023	Karnataka	1.00 lac	Buy financial reports
SADGURU CONTROLS AND AUTOMATION PRIVATE LIMITED	2023	Maharashtra	1.00 lac	Buy financial reports
TECREC TECHNOLOGIES PRIVATE LIMITED	2023	Andhra Pradesh	1.00 lac	Buy financial reports
TECHFORTH ITSEVA PRIVATE LIMITED	2023	West Bengal	1.00 lac	Buy financial reports
BEAMIO ENGINEERING SOLUTIONS PRIVATE LIMITED	2023	Andhra Pradesh	1.00 lac	Buy financial reports

EXPLORATORY DATA ANALYSIS

Exploratory Data Analysis or EDA is used to take insights from the data. Data Scientists and Analysts try to find different patterns, relations, and anomalies in the data using some statistical graphs and other visualization techniques. Following things are part of EDA:

- 1. Get maximum insights from a data set
- 2. Uncover underlying structure
- 3. Extract important variables from the dataset
- 4. Detect outliers and anomalies(if any)
- 5. Test underlying assumptions
- 6. Determine the optimal factor settings

EDA IS IMPORTANT

The main purpose of EDA is to detect any errors, outliers as well as to understand different patterns in the data. It allows Analysts to understand the data better before making any assumptions. The outcomes of EDA helps businesses to know their customers, expand their business and take decisions accordingly.

COMPANY_NAME
HOCHTIEFF AG,
SUMITOMO CORPORATION (SUMITOMO SHOJI KAISHA
LIMITED)
SRILANKAN AIRLINES LIMITED
CALTEX INDIA LIMITED
GE HEALTHCARE BIO-SCIENCES LIMITED
CAIRN ENERGY INDIA PTY. LIMITED
TORIELLI S.R.L
HARDY EXPLORATION & PRODUCTION (INDIA) INC
HOCHTIOF AKTIENGESELLSHARFF VORM GFBR HELFMANN
EPSON SINGAPORE PVT LTD

```
CARGOLUX AIRLINES INTERNATIONAL S A
```

CHO HEUNG ELECTRIC INDUSTRIAL COMPANY LIMITED

NYCOMED ASIA PACIFIC PTE LIMITED

```
# This Python 3 environment comes with many helpful analytics libraries installed
```

It is defined by the kaggle/python Docker image: https://github.com/kaggle/docker-python

For example, here's several helpful packages to load

import numpy as np # linear algebra import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)

Input data files are available in the read-only "../input/" directory # For example, running this (by clicking run or pressing Shift+Enter) will list all files under the input directory

```
import os
for dirname, _, filenames in os.walk('/kaggle/input'):
   for filename in filenames:
        print(os.path.join(dirname, filename))
```

You can write up to 20GB to the current directory (/kaggle/working/) that gets preserved as output when you create a version using "Save & Run All"

You can also write temporary files to /kaggle/temp/, but they won't be saved outside of the current session

/kaggle/input/monthly-list-of-legal-entities-registered-in-india/2021_a pril_registered_companies.csv

In [2]:

import numpy as np

import pandas as pd

import seaborn as sns

import matplotlib.pyplot as plt

In [3]:

df=pd.read_csv("../input/monthly-list-of-legal-entities-registered-in-in dia/2021_april_registered_companies.csv")

In [4]: linkcode df.head()

	1	<u> </u>	l	Į.	1		Į.	I .	.	1
company _name	date_of_regi stration	month_ name	sta te	roc	cate gory	class	compan y_type	activity _code	activity_des cription	
0	ANTON LOGISTICS PRIVATE LIMITED	19/04/2	A pr - 21	Tamil Nadu	RoC - Che nnai	Com pany limite d by Share s	Private	Non- govt compan y	63030	Transport, storage and Communi cations
1	TOURNAF EST GAMING PRIVATE LIMITED	29/04/2	A pr - 21	Rajasth an	RoC - Jaip ur	Com pany limite d by Share s	Private	Non- govt compan y	72900	Business Services
2	LINGOWO RLD TRANSLA TION AND INTERPRE TATION SERV	19/04/2	A pr - 21	Mahar ashtra	RoC - Mu mbai	Com pany limite d by Share s	Private	Non- govt compan y	72900	Business Services
3	SCT AGARBAT TI PRODUCE R COMPANY LIMITED	19/04/2	A pr - 21	Bihar	RoC - Patn a	Com pany limite d by Share s	Private	Non- govt compan y	1100	Agricultur e and Allied Activities
4	PUDUKUD I PRIVATE LIMITED	19/04/2 1	A pr - 21	Tamil Nadu	RoC - Che nnai	Com pany limite d by Share	Private	Non- govt compan y	52609	Trading

company _name	date_of_regi stration	month_ name	sta te	roc	cate gory	class	compan y_type	activity _code	activity_des cription	
						S				

df.shape

Out[5]:

(12554, 10)

In [6]: df.info()

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 12554 entries, 0 to 12553

Data columns (total 10 columns):

0 company_name 12554 non-null object date_of_registration 12554 non-null object month_name 12554 non-null object state 12554 non-null object 12554 non-null object category 12554 non-null object class 12554 non-null object 12554 non-null object company_type 12554 non-null object activity_code 12554 non-null int64 activity_description 12554 non-null object	#	Column	Non-Null Count Dtype
1 date_of_registration 12554 non-null object 2 month_name 12554 non-null object 3 state 12554 non-null object 4 roc 12554 non-null object 5 category 12554 non-null object 6 class 12554 non-null object 7 company_type 12554 non-null object 8 activity_code 12554 non-null int64			
2 month_name 12554 non-null object 3 state 12554 non-null object 4 roc 12554 non-null object 5 category 12554 non-null object 6 class 12554 non-null object 7 company_type 12554 non-null object 8 activity_code 12554 non-null int64	0	company_name	e 12554 non-null object
3 state 12554 non-null object 4 roc 12554 non-null object 5 category 12554 non-null object 6 class 12554 non-null object 7 company_type 12554 non-null object 8 activity_code 12554 non-null int64	1	date_of_registr	ration 12554 non-null object
4 roc 12554 non-null object 5 category 12554 non-null object 6 class 12554 non-null object 7 company_type 12554 non-null object 8 activity_code 12554 non-null int64	2	month_name	12554 non-null object
5 category 12554 non-null object 6 class 12554 non-null object 7 company_type 12554 non-null object 8 activity_code 12554 non-null int64	3	state	12554 non-null object
6 class 12554 non-null object 7 company_type 12554 non-null object 8 activity_code 12554 non-null int64	4	roc	12554 non-null object
7 company_type 12554 non-null object 8 activity_code 12554 non-null int64	5	category	12554 non-null object
8 activity_code 12554 non-null int64	6	class	12554 non-null object
-	7	company_type	12554 non-null object
9 activity_description 12554 non-null object	8	activity_code	12554 non-null int64
	9	activity_descri	ption 12554 non-null object

dtypes: int64(1), object(9) memory usage: 980.9+ KB

In [7]:

sns.heatmap(df.corr())



```
fig,ax=plt.subplots(1,2,figsize=(20,5))
df['class'].value_counts().plot.pie(explode=None,ax=ax[0],autopct='%1
.1f%%',shadow=True)
ax[0].set_title("Count of Class of Companies")
ax[0].set_ylabel("Count")
sns.countplot("category",data=df,order=df['category'].value_counts().i
ndex)
ax[1].set_title("Count of types of Categories Companies are Listed")
plt.show()
```

