AI DRIVEN EXPOLRATION AND PREDICTION OF COMPANY REGISTRATION TRENDS WITH REGISTRAR OF COMPANY

INTRODUCTION

Artificial Intelligence is a method of making a computer, a computer-controlled robot, or a software think intelligently like the human mind. AI is accomplished by studying the patterns of the human brain and by analyzing the cognitive process. The outcome of these studies develops intelligent software and systems.

FATHER OF ARTIFICIAL INTELLIGENCE

Geoffrey Hinton, known as the "godfather of AI," says the machines are getting smarter and faster. There are not enough guardrails to control the technology. Hinton recently talked with NPR technology correspondent Bobby Allyn about this threat.
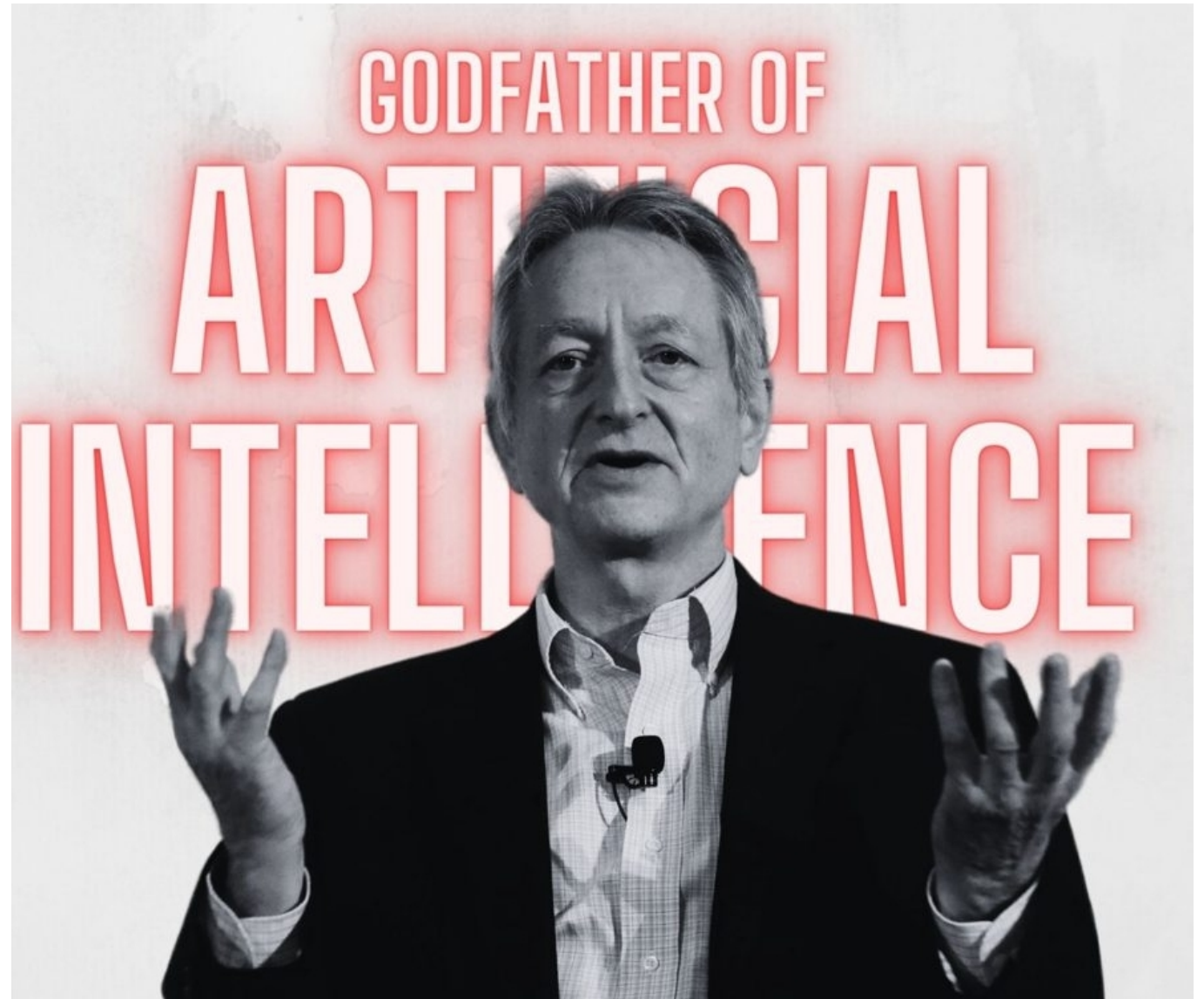
PREDICTION

Advancements in neural networks and computing power will enable AI systems with the general, multifunctional intelligence that matches the human brain. Systems will emerge that can perform complex decision-making, reasoning, problem-solving, and even creativity at human levels.
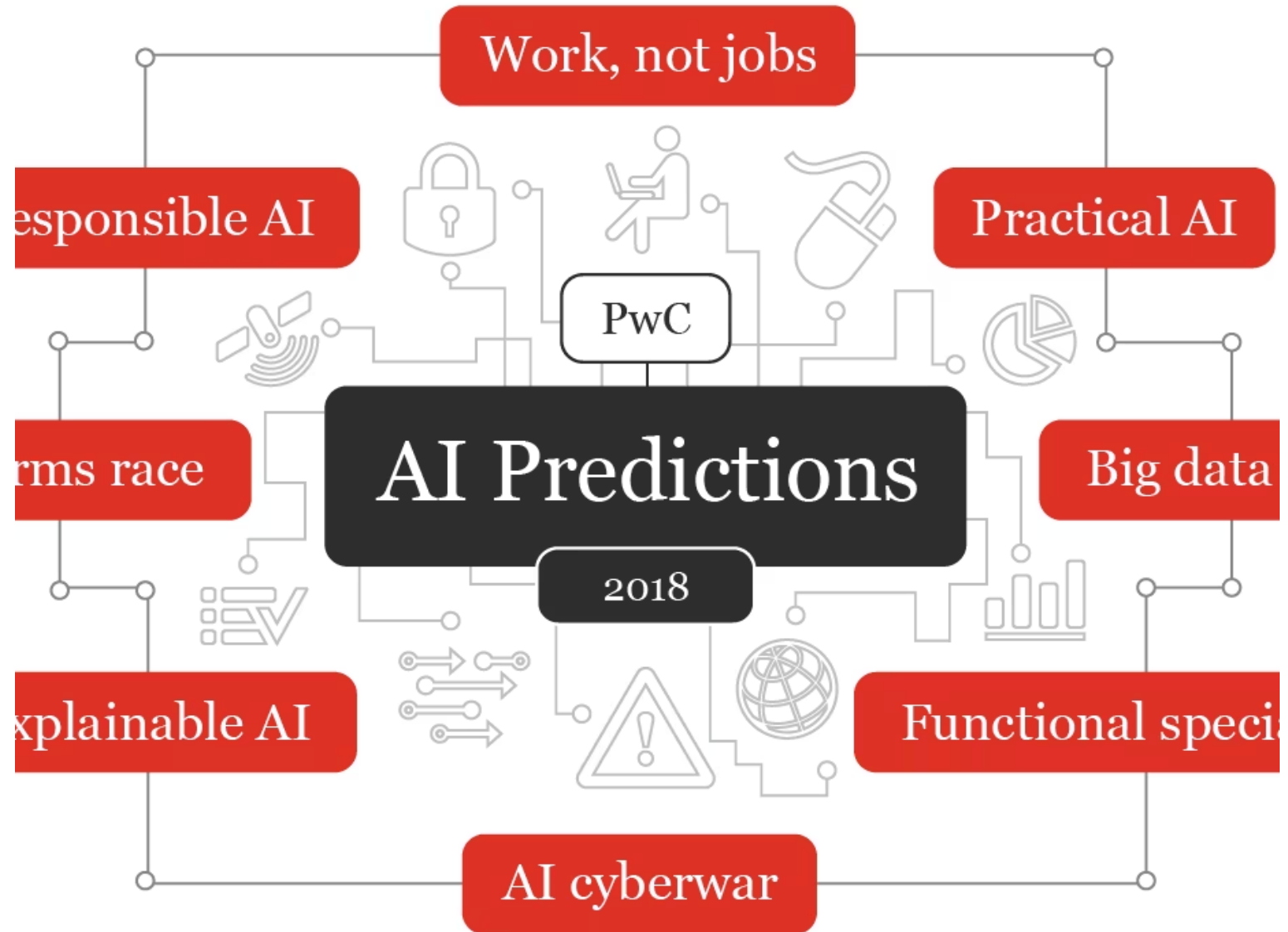
ROC REGISTERED COMPANY

The Registrar of Companies (ROC) is an office under the Ministry of Corporate Affairs (MCA), which is the body that deals with the administration of companies and Limited Liability Partnerships (LLPs) in India. Since every company in a country need the approval of the ROC for its establishment, ROC provides incorporation certificate that serves as the evidence of the existence of the company. Once incorporated, a company cannot cease unless the name of the company is struck-off from the register of companies.

LIST OF ROC COMPANIES

COMPANY NAME	CIN	ROC NAME	STATUS
NEW HORIZONS BUILDHEIGHTS PRIVATE LIMITED	U70102DL2010PTC206419	RoC–Delhi	Active
DAGUTO TRADERS PRIVATE LIMITED	U51909DL2018PTC342366	RoC–Delhi	Active
INDIA HORTICULTURE PRIVATE LIMITED	U01403DL2013PTC249856	RoC–Delhi	Active
SHAREGROWTH RESEARCH PRIVATE LIMITED	U74999KL2006PTC019611	RoC–Ernakulam	Strike Off
PONNUKKARA KURIES PRIVATE LIMITED	U65992KL2007PTC021303	RoC–Ernakulam	Active
KATTILAPOOVAM KURIES PRIVATE LIMITED	U65992KL2008PTC022923	RoC–Ernakulam	Active

DATA SET OF ROC COMPANIES

The objectives of this project is to leverage advanced artificial intelligence techniques to perform an in-depth exploration and predictive analysis on the master details of companies registered with the ROC. The AI driven analysis aims to uncover hidden patterns, discover valuable insights into the company landscape, and forecast future registration trends. The project aims to develop the predictive models using advanced artificial intelligence and support informed decision-making foe business, investors and policymakers.

CORPORATE_IDENTIFICATION_NUMBER	COMPANY_NAME	COMPANY_STATUS	COMPANY_CATEGORY	COMPANY_SUB_CATEGORY	DATE_OF_REGISTRATION	REGISTERED_STATE	PRINCIPAL_BUSINESS_ACTIVITY_AS_PER_CIN	REGISTERED_OFFICE_ADDRESS	REGISTRAR_OF_COMPANIES	EMAIL_ADDRESS	LATEST_YEAR_ANNUAL_RETURN	LATEST_YEAR_FINANCIAL_STATEMENT
F00892	SRILANKAN AIRLINES LIMITED	ACTV	Govt	Govt	01-03-1982	Tamil Nadu	Agriculture & allied	8th Floor, Dr. Radhakrishanan Road, Mylapore, Chennai	ROC DELHI	flysmiles@srilankan.com	$ 5.1 M	$ 3,77,000 L
F01208	CALTEX INDIA LIMITED	NAEF	Non Govt	Non Govt	02-02-2010	Tamil Nadu	Agriculture & allied	10th floor, Kurla road, Chakala, Andheri, Mumbai	ROC DELHI	rajeshnagar@gscaltexindia.com	$ 12.9 L	10.7 L

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F01218	GE HEALTH CARE BIO-SCIENCES LIMITED	ACTV	Non Govt	Non Govt	01-01-1994	Tamil Nadu	Agriculture & allied	No 4,kadugodi Industrial Area,Whitefield,Bangalore	ROC DELHI	manjunath.hegde1@ge.com	$ 719 M	$ 685 M
F01265	CAIRN ENERGY INDIA PTY. LIMITED	NAEF	Non Govt	Non Govt	21-08-2006	Tamil Nadu	Agriculture & allied	WELLINGTON PLAZA 90,ANNA SALAI,CHENNAI – 600002	ROC DELHI	neerja.sharma@cairnindia.	$ 3.5 B	$ 3.0 B

| CORPORATE_IDENTIFICATION_NUMBER	COMPANY_NAME	COMPANY_STATUS	COMPANY_CATEGORY	COMPANY_SUB_CATEGORY	DATE_OF_REGISTRATION	REGISTERED_STATE	PRINCIPAL_BUSINESS_ACTIVITY_AS_PER_CIN	REGISTERED_OFFICE_ADDRESS	REGISTRAR_OF_COMPANIES	EMAIL_ADDRESS	LATEST_YEAR_ANNUAL_RETURN	LATEST_YEAR_FINANCIAL_STATEMENT
F00643	HOCHTIEFF AKTIEN GESELL SHARFF VORM GFBR HELFMANN	NAEF	Non-Govt	Non Govt	19-02-1999	Tamil Nadu	Agriculture & allied	AMBLE SIDE, NO.8(OLD NO.30), 3RD FLOOR KHADER NAWAZ KHAN ROAD,N UGAMBA	ROC DELHI	kumar@international.hochtief.de	$ 28.82 B	$ 27.51 B
	SUMITOMO CORPORATION (SUMITOMO SHOJI							4TH Floor,Jo sier STREET		scin-compliance		

PROCEDURE

q First add to the given data set in XL sheet.

q The items are added in the table,

      1. Company Category

      2. Company Subcategory

      3. Company Status

      4. Registered State

      5. Registeration Of Date

STRUCTURAL OF AI ALGORITHM
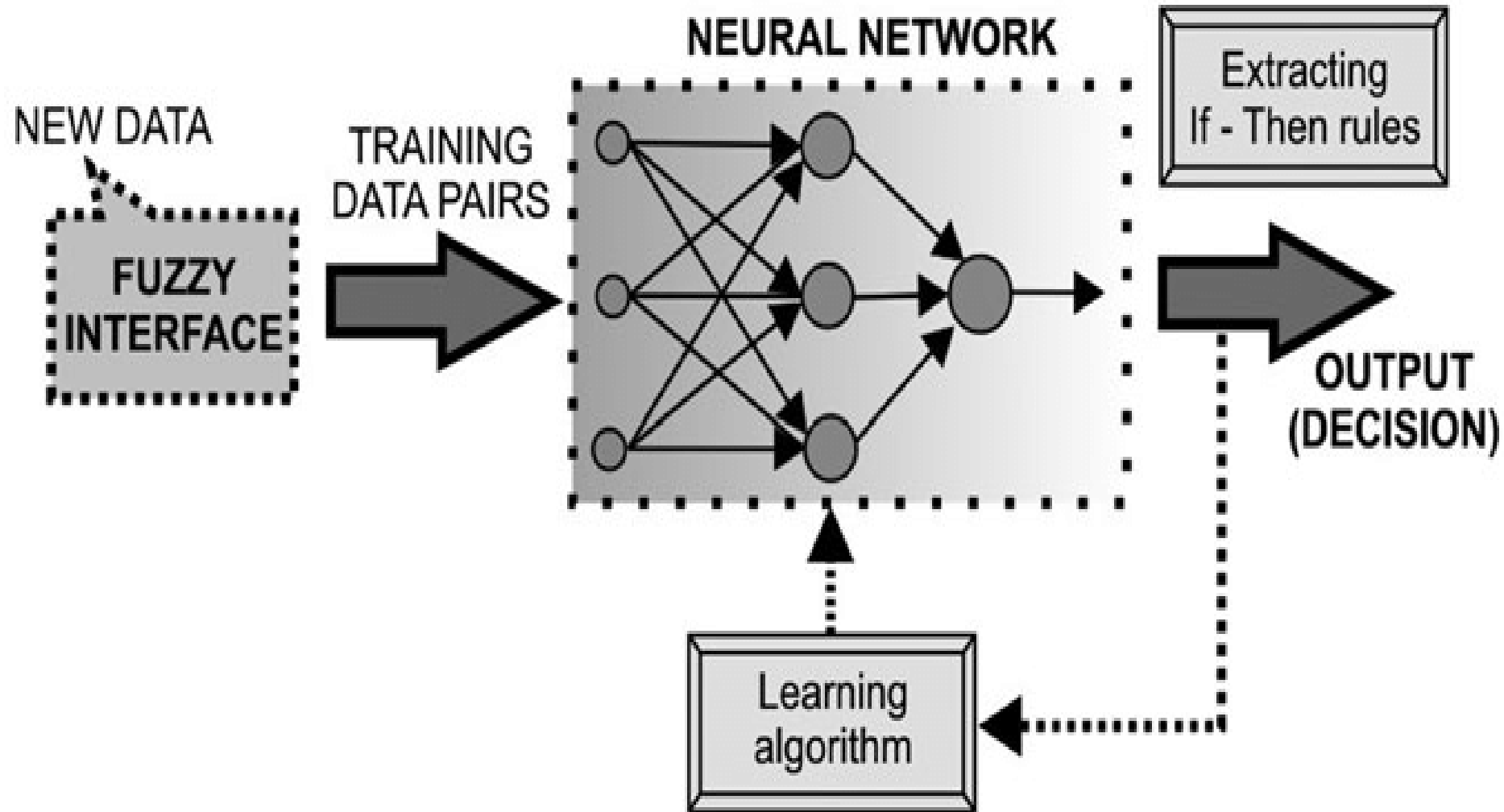
ALGORITHM STEPS

- AI algorithms are a set of instructions or rules that enable machines to learn, analyse data and make decisions based on that knowledge. These algorithms can perform tasks that would typically require human intelligence, such as recognizing patterns, understanding natural language, problem-solving and decision-making.

- How To Build AI Software: A Manual For Founders

- Follow these 6 steps:

- Identify the business problem you want to solve with AI.

- Gather data.

- Choose an AI technology you want to use.

- Build and train the model.

- Test the model.

- Deploy the model.

DATA ANALYSIS

AI data analysis is the use of AI techniques and data science to enhance the processes of cleaning, inspecting, and modeling structured and unstructured data. The overarching goal is to uncover valuable information to support drawing conclusions and making decisions. AI helps by automating a lot of the process.

METHODS OF DATA ANALYSIS

There are five methods used for data analysis,
- Diagnostic Analysis
- Predictive Analysis
- Prescriptive Analysis
- Text Analysis
- Statistical Analysis

PREPROCESSOR DATA

CORPORATE_IDENTIFICATION_NUMBER	COMPANY_NAME	COMPANY_STATUS	COMPANY_CLASS	COMPANY_CATEGORY	COMPANY_SUB_CATEGORY	DATE_OF_REGISTRATION	REGISTERED_STATE	AUTHORIZED_CAP	PAID UP_CAPITAL	INDUSTRIAL_CLASS	PRINCIPAL_BUSINESS_ACTIVITY	REGISTRAR_OF_COMPANIES
L15511TN1983PLC010313	EMPEE DISTILLERIES LIMITED	ACTV	Public	Company limited by Shares	Non-govt company	15-09-1983	Tamil Nadu	30000000000	20175753	015511	Manufacturing	ROC CHENNAI
L15520TN1983PLC055365	BALAJI DISTILLERIES LIMITED	AMAL	Public	Company limited by Shares	Non-govt company	15-12-1983	Tamil Nadu	225000000000	14301756000	015520	Manufacturing	ROC CHENNAI
L15549TN1	TEJASVI AAHARAM			Company limited	Non-			2500	2178			

L17100TN2007PLC065226	S V GLOBAL MILL LIMITED	ACTV	Public	Company limited by Shares	Non-govt company	30-10-2007	Tamil Nadu	23250000000	90414850	17100	Manufacturing	ROC CHENNAI
L17111TN1936PLC002298	RAJAPALAYAM MILLS LIMITED	ACTV	Public	Company limited by Shares	Non-govt company	24-02-1936	Tamil Nadu	15000000000	73761600	17111	Manufacturing	ROC CHENNAI
L17111TN	RAMARAJU SURGICAL COTTON MILLS			Company limited	Non-govt	20-			394			ROC C

CIN	Company Name	Status	Class	Category	Subcategory	Date of Registration	State	Authorized Capital	Paid up Capital	NIC Code	Activity	ROC
L17111TN1936PLC002298	RAJA PALA YAM MILLS LIMITED	ACTV	Public	Company limited by Shares	Non-govt company	24-02-1936	Tamil Nadu	150000000	7376160	17111	Manufacturing	ROC CHENNAI
L17111TN1939PLC002302	RAMA RAJU SURGICAL COTTON MILLS LIMITED	ACTV	Public	Company limited by Shares	Non-govt company	20-02-1939	Tamil Nadu	50000000	39465600	17111	Manufacturing	ROC CHENNAI
L17111TN1946PLC001361	LOYAL TEXTILE MILLS LIMITED	ACTV	Public	Company limited by Shares	Non-govt company	09-04-1946	Tamil Nadu	150000000	48164460	17111	Manufacturing	ROC CHENNAI

ANALYSED DATA
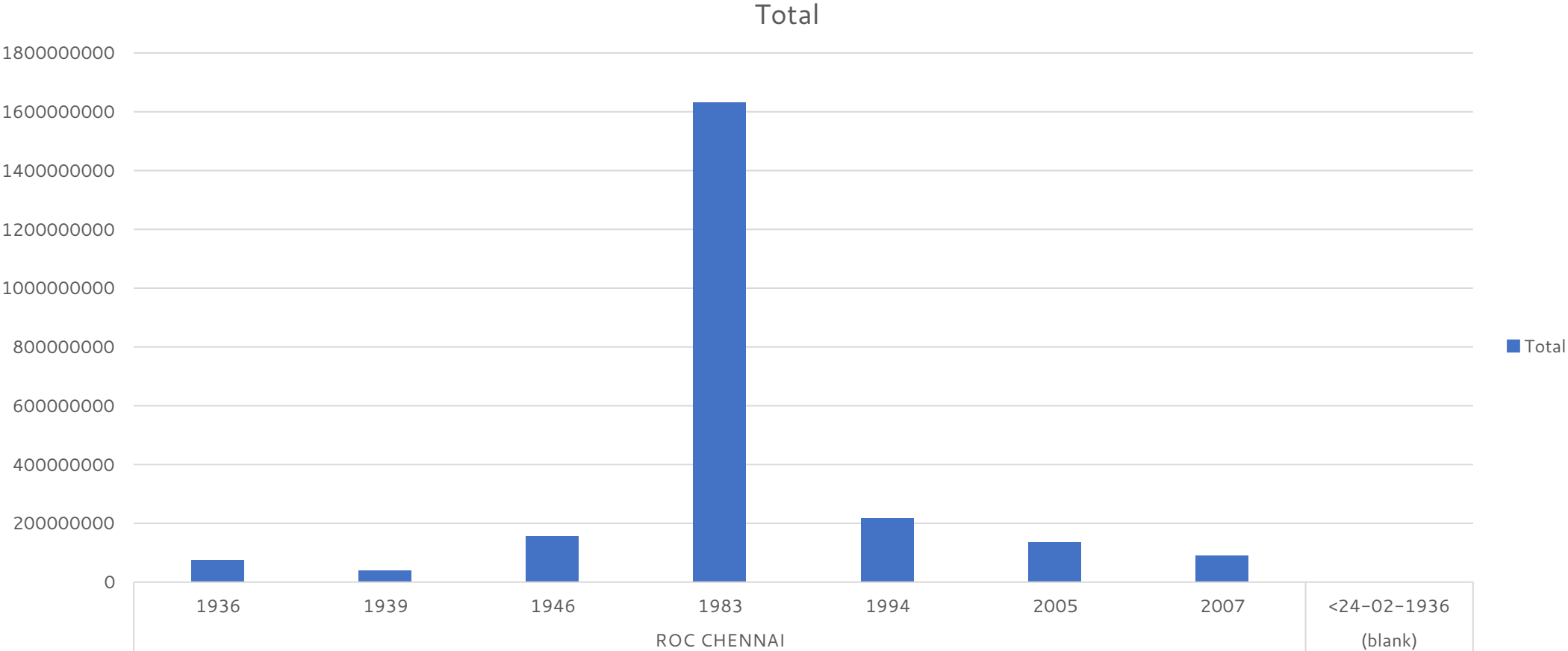
AI DEVELOPMENT PART

Total's AI development services help business es and operations making Top companies work with Total AI developers to augment their in- house development teams and build AI applications, software solutions, and machine learning algorithms that solve business problems in areas including customer experience and supply chain

improve their automate decision and business workflows. and startups

TRENDS IN COMPANY MARKETING

Artificial Intelligence (AI), is rightfully among the technologies that are fundamentally changing the modern world.

Expectations from AI developments are confirmed by a willingness to invest in them. The Stanford Artificial Intelligence Index Report 2022, reveals that private investment in artificial intelligence is growing rapidly, reaching an amount of about 93.5
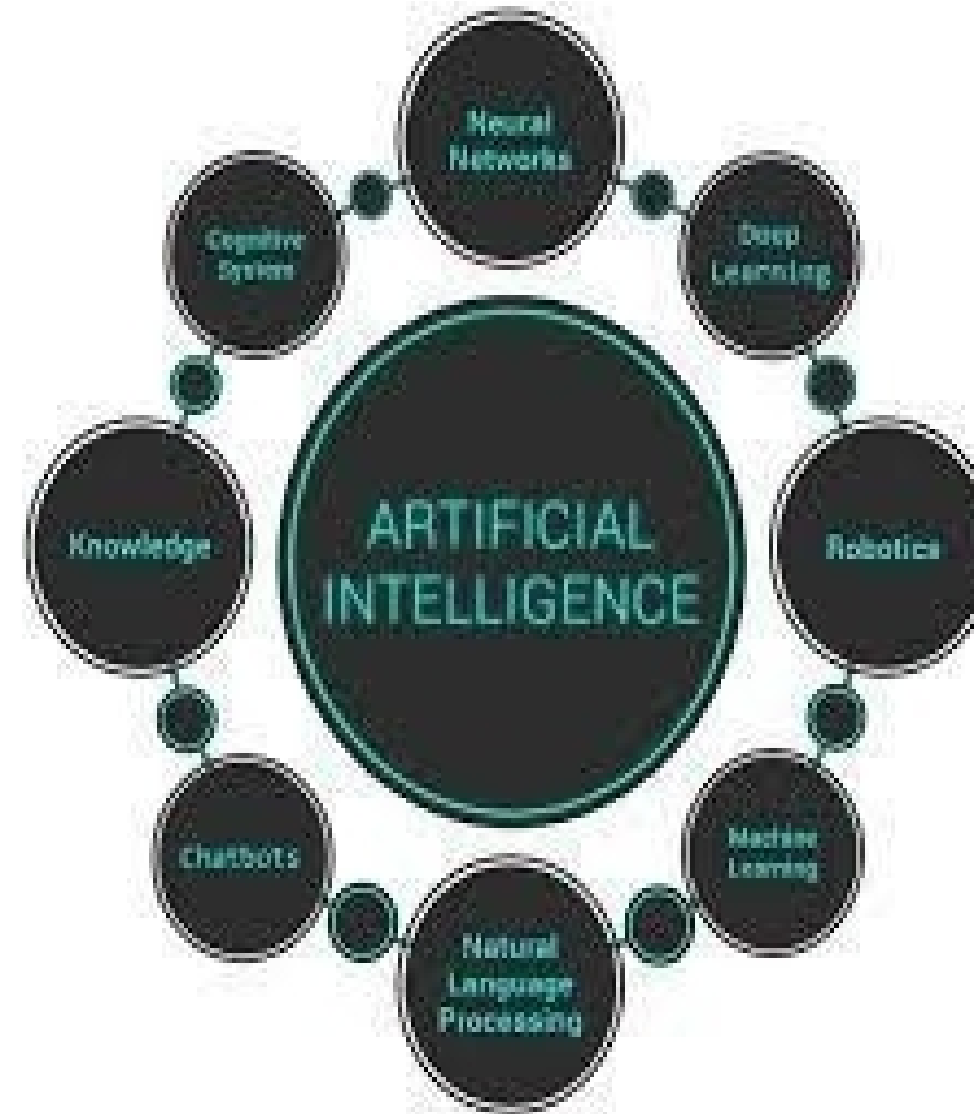
AI Unlocks the Metaverse

3D models of which objects and systems will be primarily useful for companies and their consumers.

Processes involving clients and partners that can be painlessly transferred to the virtual world, and perhaps even made better there. Nowadays, no one is surprised by virtual fitting or product testing, digital modeling of decor, and much more.

Priorities, preferences, and expectations of your target audience in the Metaverse, which becomes a space for communication, sales, and other forms of interaction.

AI Enhances Security and Surveillance

Identifying a person, including their age, gender, and emotional state, through voice recognition has also become an important feature of AI-powered applications. A built-in anti-spoofing feature that detects synthesized and recorded voice is just what is needed to keep such tools safe. Biometric facial recognition is also essential

PROGRAM

import edu . stanford .nlp .ling.CoreAnnotations;
import
edu.stanford.nlp.neural.rnn.RNNCoreAnnotations;
import edu.stanford.nlp.pipeline.Annotation;
import edu.stanford.nlp.pipeline.StanfordCoreNLP;
import
edu.stanford.nlp.sentiment.SentimentCoreAnnotations;
import edu.stanford.nlp.trees.Tree;
import
edu.stanford.nlp.util.CoreMap;

```java
Public class Sentiment Analysis Example {
public static void main(String[] args) { // Set
up the Stanford NLP pipeline Properties props
= new Properties();
props.set Property("annotators", "tokenize, ssplit,
parse,
sentiment"); StanfordCoreNLP
pipeline = new
StanfordCoreNLP(props);

// Analyze the sentiment of a text String text
= "I love this product! It's amazing.";
Annotation annotation = new
Annotation(text);
```

```
{
 Tree tree =
sentence.get(SentimentCoreAnnotations.SentimentAnnota
tedTree.class);  int sentiment =
RNNCoreAnnotations.getPredictedClass(tree);
System.out.println("Sentiment: " + sentiment);
    }
   }
  }
```

GOALS OF AI DEVELOPMENT

Problem-Solving and Decision Making

Natural Language Processing (NLP)

 Machine Learning and Deep Learning

Robotics and Automation

Enhancing Healthcare and Medicine

 Fostering Creativity and