



THINK IN BYTES

# Think In Bytes

Think Innovation ? Think In Bytes !



Ahmedabad, India.



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# Let's do things differently using AI

Tell us what you do, And we will tell you how can you do it easily with AI. We leverage the power of Artificial Intelligence to make difficult things simple and simpler things more efficient !

30+

PROJECTS

75%

REVENUE FROM  
REPEAT CUSTOMERS

20+

CLIENTS

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# What we do ?

Masterpieces we are capable of creating





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# Machine learning

We develop classification and regression based customised prediction system using state of the art ML algorithms that can be deployed on edge devices.

Applications :

- Predicting sales, energy generation, production etc
  - Predicting loan defaulters, cancerous tissues etc.
  - Predicting failures in manufacturing, fermentation etc.
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# Deep learning

We develop AI based Deep Learning algorithms and models which enables automate business processes and make better decisions based on past data.

Applications :

- Business Automation
  - Detect manufacturing anomalies
  - Early diagnosis
  - Predicting machine failures and maintenance
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# Computer Vision

Our state of the art computer vision algorithms can extract and recognize insights and semantic information from video streams and images.

Applications :

- Detect criminals, ammunations from CCTV footage
  - Crop analysis and weed detection
  - Extracting vitals like heart rate etc from front camera
  - Detect diseases from medical reports and X-rays
  - Complex action recognition and video captioning
  - Automatic CCTV based Parking system
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# Data Analysis

Convert Data into Information and answer your business questions with our powerful data analysis tool - Think In Graphs

Applications :

- Business sales analysis
  - Warehouse stock analysis
  - Production analysis
  - Website traffic analysis
  - Marketing response analysis
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# Recommendation System

We develop AI enabled powerful and personalised product and content filtering recommendation engines to provide your customers exactly what they want.

Applications :

- Recommending products on ecommerce websites
  - Recommending dishes in restaurants and cafes
  - Content recommendation on social media, LMS sites
  - Market-Basket Analysis
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# Natural Language Processing

We develop AI based NLP solutions that interprets human languages and behaviour helping systems understand and communicate with real humans.

Applications :

- AI based chatbot
  - Neural Machine Translation
  - Virtual assistants like Alexa, siri
  - Document classification
  - OCR / Text recognition
  - Text summarization
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## And much more..

We specialize in cognitive solutions but we do think a lot beyond this. Our expert team has more than a decade of experience in emerging technologies.

Other expertise:

- Big Data
  - IoT
  - Web development
  - Mobile App development
  - Digital Marketing
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# Our Products

Our state of the art masterpieces





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## Stock Trend Prediction - Think Invest

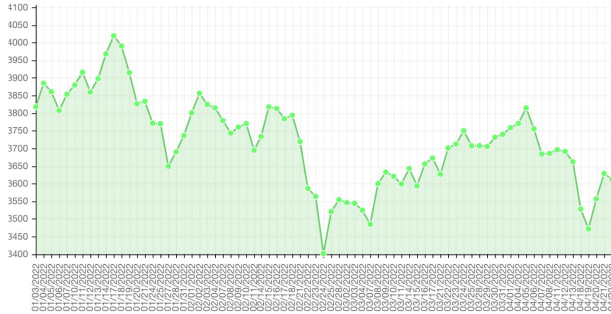
We developed India's most accurate AI based stock trend prediction system which incorporates enormous historical stock price action and technical indicators to predict next trading day's stock trend. The system currently predicts NSE index stocks trend with above 85% accuracy and gives higher returns over various time frames as compared to single shot investment.

Our vision is to build fully automatic trading bot that trades on behalf of you. You just have to recharge your wallet and bot does the rest !

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## Stock Prediction for TCS.NS

Buy this stock today around market-close time and book profits tomorrow  
(Recommended profit 0.5%)



TOMORROW'S PREDICTION: BULLISH

## Back Testing Report for TCS.NS

Can't believe? If you'd follow THINK INVEST'S predictions, TCS.NS would have given you performance as below:



PERIOD	RETURNS(%)	CALLS GENERATED	BUY ACCURACY	SELL ACCURACY
1 Month	13	9	100	100
3 Month	19	20	90	88
1 Year	61	79	88	68
3 Years	239	204	85	68
5 Years	532	316	79	72



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# Think In Graphs

Our Data Analysis and Visualization tool - Think In Graphs is a dynamic web based software that enables users to upload their csv data and derive useful information through 15 different type of visualisation and breakdown options.

We also provide pro version which can directly connect with your database or billing softwares and show the information you need on your finger tips.

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**Control Panel**

Upload your CSV or Excel file. (200MB max)

Drop files here to upload  
or  
[browse files](#)

Split date ?

None

Perform Groupby

**Filter data by conditions**

Choose relation

None

Column

No options to select.

**Data visualisation**

Select the chart type

Select chart

# Think In Graphs - Dashboard

Powered by [Think In Bytes](#)

```
graph LR; A[Upload Data (XLSX or CSV)] --> B[Filter or Group Your Dataset]; B --> C[Select Chart & Tweak settings]; C --> D[View & Download Data Graphs]
```

Upload Data (XLSX or CSV)

Filter or Group Your Dataset

Select Chart & Tweak settings

View & Download Data Graphs



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# Our Workflow

Process of creating masterpieces







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## 1



### Requirement gathering

Clients need is our business lead ! We understand and analyze clients requirements.

## 2



### Brainstorming

All our thinkers unite to brainstorm and come up with our best approach to meet clients requirements.

## 3



### Design & Develop

Then begins all the hard work. We strictly follow Agile cycle to design and develop the masterpiece.

## 4



### Testing

All our products go through rigorous testing by ethical hackers to make it secure and bug-free.

## 5



### Deployment

Once final product is ready, we deploy it on the edge for end-users to start utilizing the power of AI.

## 06



### Maintenance

Sell and go is never our thing. After deployment, we provide full support and maintenance anytime.



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# Portfolio Gallery

Click on the service you are looking for :

- [AI / ML](#)
  - [IoT](#)
  - [Python](#)
  - [Web development](#)
  - [App development](#)
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# Client Projects

Masterpieces for our valuable thinkers

AI - ML

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# Compliance Detection

Thinker - Sundyota Numandis, India & Switzerland  
Tech-stack - AI, Python, SQL

We developed a CCTV based smart compliance detection solution for a pharmaceutical based manufacturing plant. System detects if the employees are wearing safety gears, lab-coats and are dust-free to ensure they follow compliances and keep production free from anomalies

Error-free and unbiased object detection based module enhances the power of surveillance system !

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## AI Coach

Thinker - Fitness Machine company, USA  
Tech-stack - Python, AI.

We developed a smart training coach application which was capable of guiding an user on gym machine and detect complex and similar exercises and count repetitions just using camera feed.

Our State-Of-The-Art light weight video classification model with 96% accuracy did its job so perfectly that kept our client way ahead of its competitors.

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## AI Tourist Chatbot

Thinker - Individual tourist agent, Poland.  
Tech-stack - Python, AI.

Our thinker required a chatbot that can assist tourists in new cities based on their hobbies and travel history. It includes NLP to understand users queries and collaborative filtering based recommendation system that recommends nearby events and places based on user's hobbies.

Unique concept and our powerful NLP model keeps this chatbot apart from the rest !

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# AI based Crop Price Prediction

Thinker - Agriculture Research Professor, India.  
Tech-stack - Python, AI.

Using historical crop price and weather data, we developed crop price forecasting system that will empower indian farmers to estimate and effectively manage their cash flow. Predicting the price of crop will help in taking better decisions which results in minimizing loss and managing the risk of price fluctuations.

Highly accurate system with MAPE of less than 1% will help indian farmers reduce their overall debt.

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# Smart Web Scrapper

Thinker - Data collection firm, India.

Tech-stack - Python, ASP.NET, AI-NLP

This web scraper is able to capture manual keystrokes and clicks and intelligently replicates the flow multiple times to fetch required data from multiple websites.

First ever smart web scrapper that eradicates dependency on website structure and efficiently parses complex data from the website makes it to our hit list !

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# Client Projects

Masterpieces for our valuable thinkers

IoT

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## Bicycle On Rent

Thinker - Powertrons Mobility, Eeve Pvt Ltd - USA  
Tech-stack - IoT, Android, AWS

We delivered an end-to-end bicycle-on-rent solution for our cycle manufacturing client. It uses smart IoT device that is capable of tracking exact location of the cycle, remote locking, route navigation, location history and ride sharing.

Our cloud based python API manages most of the part to reduce hardware dependencies and improve accuracy and efficiency of the system.

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# Client Projects

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## App Development

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## Bicycle On Rent

Thinker - Powertrons Mobility, Eeve Pvt Ltd - USA  
Tech-stack - Android, IoT, Cloud computing

We delivered an end-to-end bicycle-on-rent solution for our cycle manufacturing client that connects with the smart IoT device and remotely manages operations such as cycle locking, route navigation, ride-sharing etc.

Our cloud based python API manages most of the part to reduce hardware dependencies and improve accuracy and efficiency of the system.

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# Client Projects

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## Python

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# Boids Simulator

Thinker - Individual researcher, Poland.  
Tech-stack - Python

We created boids simulation that replicates real world scenarios of wildlife program for a research project carried out in poland. It includes some custom rules which prey and predators abide by, while flocking on the screen.

The simulator runs in Pygame window and has dynamic options to change velocity, FPS etc.

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## Data Scrapper

Thinker - Sunflowee Biztech pvt ltd, India.  
Tech-stack - Python

We developed an online data scraping tool which was capable of validating authentication system using registered credentials and scrap required information and store them in the database.

The tool was able to perform efficiently with very less computation usage and thus minimizing server cost for the client.

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# Client Projects

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## Web Development

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# Automated Tax Reporting

Thinker - ERCToday, USA

Tech-stack - Node, Angular, Python

We created an automation tool that fetches payroll data of our client's customer company employees from payroll APIs such as quickbooks, finch etc and generates tax report as per USA compliances. It uploads the reports on S3 and DropBox for record.

Fully automated system that performs tedious repetitive tasks in just few clicks made our client's life a lot easier !

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# Interactive psychometric Tool

Thinker - Event management company, Poland.  
Tech-stack - JavaScript, Angular, Big Data

We created an interactive web-based Psychometric tool which collected various real-time user data and performed complex mathematical algorithms in backend. At the end of the quiz, metrics in the form of visualization is displayed on the dashboard.

The system consists of big-data processing techniques to deal with huge amount of user data.

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## Ease Learn LMS

Thinker - Sundyota Numandis, India & Switzerland.  
Tech-stack - Wordpress, Linux

We configured our Ease Learn LMS for a pharmaceutical company based in India and Switzerland to conduct online training and product introduction sessions for their existing employees and new-joinees.

The LMS is hosted on their custom domain and has more than 100 active users.

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## Web Portal

Thinker - Powertrons mobility, India.  
Tech-stack - HTML, CSS, JS

We developed a web based online selling platform for our cycle manufacturing client. Elegant design, efficient search engine optimization provides better reach and genuine leads to our client.

The website also consists of unique product-customize option through which user can customise the product before purchase.

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## Food Chain Website

Thinker - La Milano Pizzeria, India.  
Tech-stack - HTML, CSS, JS

We developed an information web space for our esteemed client who is one of the leading pizza-chain in India. Elegant design, efficient search engine optimization provides better reach and genuine leads to our client.

The website gets more than 1000 daily hits and form submissions.

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And Many More...

# Our Clients

We call them Innovative Thinkers



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# Thinking Innovation ?

Lets think in bytes !



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